

SIEMENS

ARCADIS

SP

Troubleshooting Guide

System

Software, Service Information

Valid for:

ARCADIS Varic

ARCADIS Orbic

ARCADIS Orbic 3D

ARCADIS Avantic

© Siemens AG 2003

The reproduction, transmission or use of this document or its contents is not permitted without express written authority. Offenders will be liable for damages. All rights, including rights created by patent grant or registration of a utility model or design, are reserved.

Print No.: SPR2-310.840.01.06.02

Replaces: SPR2-310.840.01.05.02

English

Doc. Gen. Date: 07.05

Document revision level

The document corresponds to the version/revision level effective at the time of system delivery. Revisions to hardcopy documentation are not automatically distributed.

Please contact your local Siemens office to order current revision levels.

Disclaimer

The installation and service of equipment described herein is to be performed by qualified personnel who are employed by Siemens or one of its affiliates or who are otherwise authorized by Siemens or one of its affiliates to provide such services.

Assemblers and other persons who are not employed by or otherwise directly affiliated with or authorized by Siemens or one of its affiliates are directed to contact one of the local offices of Siemens or one of its affiliates before attempting installation or service procedures.

1	General Information	6
	Introduction	6
2	Restrictions	7
	Adjustment	7
	Configuration	8
	Local Printer	10
	Software Installation	11
	Writing data to CD	12
	Radiation release is not possible	13
	Shut down.	14
3	General Settings	15
	Administrator	15
	Administrator logon when HIPAA is configured	15
	Logoff when HIPAA is configured	16
	Administrator logon when HIPAA is not configured	16
	Logoff when HIPAA is not configured	17
	Explorer	18
	Opening Explorer	18
	Writing Explorer data to CD	18
	Log files	19
	Creating an examination sets file	19
	Creating the service log file and developer file	19
	Creating a service log file	19
	Creating a syngo log file	19
	Creating a developer log file	20
	Writing log files to CD	20
	Med User	21
	Service software	22
	Open the service software	22
4	Description of the Action Fields of the Event Log	26
	A.	26
	Acquire an image	26
	C.	27
	Check the disk space	27
	Check that the connections to the imaging system PC are ok	28
	Check the networking configuration	28
	Check the interface cable and connectors between main system	28
	Check that enough physical memory is available and the PC is not blocked by swapping to virtual memory	28
	Check the size of the directories containing temporary files	29
	Check the CAN connection to the main system	30
	Check the network connection to the navigation system	30

Check the navigation system.	30
Check limit switches	30
Check cabeling	31
Check limit switch to see if the top and bottom were not mismatched during installation	31
Check the adjustment of the orbital potentiometer	31
Check the coupling unit	31
Check connection to the main system.	31
Check if the correct file was used	32
Check if the USB-to-CAN compact module is plugged into an USB-port to the PC .	32
Check if the LED called USB on the USB-to-CAN compact module. It should be green for proper usage	32
Check driver	32
Check the LAN connections of	33
Check the event log for other errors	34
D.	35
Disable the DICOM option in the local service list of options page or import the needed license	35
Download SMC_PLUS software and restore all backup packages from the main system via service software	35
E.	36
Examine the terminal strip on the motor unit.	36
F.	37
For more information look at the extended text for this id	37
G.	38
Give unique name for the ExamSet.	38
I.	39
If there are really memory allocation problems, you should also see problems with other imaging system applications in the event log	39
If driver reports problems:	39
L.	40
Load 3D-Images from the scan that failed.	40
Load 3D-Images from another patient and make sure that loading imges is working	40
P.	41
Please, configure a new number of the LUTs in the Servicesoftware under Configura- tion.	41
Please, configure a new number of Edfge Enhancements in the Servicesoftware under Configuration	41
Position the c-arm as it is shown in the service UI	41
Perform an adjustment of the angulation potentiometer	41
Perform a calibration of the system.	41
perform a manual orbital movement and check if limit switches are pressed	41
Perform the 3D adjustment again	42
R.	43
Restore all backup packages via service software	43
Retry change	44
Reinstall.	45
Remove Patient-Database	45
S.	46

Save patients on CD or network and remove those patients from the patient browser	46
Start a scan.	46
Start a scan.	46
T.	47
The imaging system PC might be defect	47
This may be caused by loading images for viewing, filming etc. In this case close all open images	47
Test the CAN-Board	47
U.	48
Use PC Diagnosis software	48
V.	50
Verify that all components required foe 3d exist (see component viewer)	50
Verify that all components required foe 3d are in state running	50
5 Settings with Admin Privileges	51
Setting network cards.	51
Changing the IP address in Windows.	52
Changing the computer name in Windows.	53
Installing a local printer.	54
6 Backup/restore	55
Backing up ARCADIS Orbic/Varic	55
Backup	55
Backing up ARCADIS Avantic	60
Backup	60
Restoring ARCADIS Varic/Orbic	65
Restore	65
Restoring ARCADIS Avantic	79
Restore	79
7 Changes to previous version	93

Introduction

This information is for the CSE and the application specialist.

Restrictions are listed in chapter 2.

Chapter 3 lists general settings.

Chapter 4 includes descriptions of the Action fields of the Event log.

Chapter 5 describes settings with admin privileges.

NOTE

-
- **Activities to be performed are labeled with bullet points.**
 - **Indented text under the activity to be performed contains general information.**
 - ⇒ **Results and events are labeled with an arrow in front of the indented text.**
-

Adjustment

Function	0 degree setting	
Problem	The image cannot be correctly set to 0 degrees.	
Workaround	<ul style="list-style-type: none"> Deactivate "Circle Mask". Close the Service Software for this purpose. The Service Software can now be opened again. ➡ The "Circle Mask" remains deactivated. 	
Sporadic Yes	Reported VB10B VB10C	

Configuration

Function	“Viewer” settings	
Problem	Settings that are entered in the “Viewer” within the “Configuration Panel” are not stored during a backup.	
Workaround	<ul style="list-style-type: none"> • Make a note of the settings in the Viewer prior to a new installation of the imaging system. • Reenter these settings after you have successfully installed the imaging system software. 	
Sporadic No	Reported VB10B VB10C	

Function	Configuration of the “Display Settings” within the Service Software	
Problem	The settings under the item “ Metering fade out delay” do not have an effect.	
Workaround	<ul style="list-style-type: none"> • None available. 	
Sporadic No	Reported VB10B VB10C	

Function	Configuration of the “Display Settings” within the Service Software	
Problem	The settings under the item “Collimator fade out delay” are not stored by using the “Save” button.	
Workaround	<ul style="list-style-type: none"> • Switch off the system completely <div style="margin-left: 20px;">↔ This saves the value entered.</div> • Switch on the system again 	
Sporadic No	Reported VB10B VB10C	
Sporadic Yes	Reported VB11A	

Function	Change the IP address and/or computer name	
Problem	The system does not automatically restart after a change to the IP address and/or computer name.	
Workaround	<ul style="list-style-type: none"> • Enter the IP address and/or computer name. • Click "Save". <ul style="list-style-type: none"> ⇒ The following is displayed: "the change is only consistently" • Click "OK". <ul style="list-style-type: none"> ⇒ The following is displayed: "local host data successfully saved". • Click "OK". • Click "Home". • Select "Utilities". • Under "Source", select "System". • Select "Restart system". • Click "Go". <ul style="list-style-type: none"> ⇒ The following is displayed: "System restart was selected". • Click "OK". <ul style="list-style-type: none"> ⇒ The system performs a restart. 	
Sporadic No	Reported VB13B	

Local Printer

Function	Install printer driver for Codonics EP1660L	
Problem	This driver is not automatically installed during a new installation of the imaging software.	
Workaround	<ul style="list-style-type: none"> Install printer driver following the instructions in document “Software Installation SPR2-310.816.01.xx” 	
Sporadic no	Reported VB10B VB10C	

Function	Install printer driver for Sony LPR 1000	
Problem	This driver is not automatically installed during a new installation of the imaging software.	
Workaround	<ul style="list-style-type: none"> Install printer driver following the instructions in document “Software Installation SPR2-310.816.01.xx” 	
Sporadic no	Reported VB10 B VB10C VB11A	

Software Installation

Function	Install imaging system software	
Problem	The imaging system software cannot be installed correctly	
Workaround	<ul style="list-style-type: none"> Check that all of the USB plug-in connections are connected to the correct cables as shown in the connection diagram on the imaging system PC. Ensure that there are no USB sticks plugged into the imaging system PC. 	
Sporadic No	Reported VB10B VB10C VB11 VB13B	

Function	Start the imaging system following a new installation	
Problem	The following error message is displayed: “MsgCard: Database creation of exchange board failed”	
Workaround	<ul style="list-style-type: none"> Log on as administrator Open Explorer Select the folder “D:\Database\Exchangeboard” and delete it. Switch off the system completely. Switch the system on. <ul style="list-style-type: none"> The exchange board is automatically regenerated. 	
Sporadic Yes	Reported VB10B VB10C VB11A	

Writing data to CD

Function	Write to CD	
Problem	User attempts to write to a CD, but the CD-ROM drive is empty. An error message is displayed. After inserting a CD, the write operation continues to fail.	
Workaround	<ul style="list-style-type: none"> • Completely switch off the system and switch it back on • Insert a CD into the CD-ROM drive • Initiate the write operation again 	
Sporadic No	Reported VB10B VB10C VB11A	

Radiation release is not possible

Function	Release radiation	
Problem	Due to existing print jobs, no radiation release is possible.	
Workaround	<ul style="list-style-type: none"> • Select "Patient" in the Acquisitions task card. • Click "Film Task Status". <ul style="list-style-type: none"> ⇒ The status is displayed. • Click the printer displayed. <ul style="list-style-type: none"> ⇒ The Printer Queue is displayed. • Select all print documents displayed. • Click the right mouse button. • Click "Cancel". <ul style="list-style-type: none"> ⇒ The following is displayed: Are you sure you want to cancel the selected print jobs? • Click "Yes". <ul style="list-style-type: none"> ⇒ All print jobs in the queue are deleted. 	
Sporadic No	VB10B VB10C	

Shut down

Function	Switch off the system completely	
Problem	After e.g. a shutdown, the main system is without voltage. However, voltage is present at the monitor trolley, and the system no longer responds to the system main switch.	
Workaround	<ul style="list-style-type: none"> • Press the Reset button at the monitor trolley. <ul style="list-style-type: none"> - This button is located underneath the keyboard. <p>⇒ This immediately shuts off voltage at the monitor trolley.</p>	
Sporadic No	Reported for all software versions	

Administrator

NOTE

By releasing the administrator rights you can carry out all settings within Windows XP. Please take into consideration that incomplete changes within Windows XP can lead to major PC problems!

Administrator logon when HIPAA is configured

- Open the service software
- Select "Configuration"
- Under "Local Host", select the item "User"
- Under "Account for Administrator", deselect the item "Random Password"
- Under "or give Password", enter "arcadisvaric"
 - You could also enter another password of your choice instead of "arcadisvaric"
- Under "Confirm", enter the same password as under "or give Password"
- Click on "save"
- Click on "Home"
- Select "Utilities"
- Under "Source", select the item "System"
- Select "Shutdown Application"
- Click "Go"
 - ⇒ The following message is displayed:
An application shutdown has been selected.
Are you sure you want to continue?
- Click "OK".
 - ⇒ The following message is displayed:
"Shutdown of application finished"
 - ⇒ The customer user interface is no longer displayed.
 - ⇒ The "Start" button can be selected in the lower menu bar.
- Click "Start"
- Click "ShutDown"
 - ⇒ The following message is displayed:
"What do you want the computer to do?"
- Select "Log off meduser"
- Click "o.k."
- Press the "Shift button" immediately.
 - ⇒ The following message is displayed:
"Log on to Windows"
- Under "User name", enter "administrator"

- under "Password", enter the password assigned in the Service Software.
- Click "ok"
 - You now have administrator privileges

NOTE

You can change the password within the service software at any time.

Logoff when HIPAA is configured

- Click "Start"
 - ⇒ The "Start" button can be selected in the lower menu bar.
- Click "Shut down"
 - ⇒ The following message is displayed:
"What do you want the computer to do?"
- Select "Log off administrator"
- Click "OK"
 - ⇒ The syngo counter appears.
 - ⇒ The user interface is displayed again.

Administrator logon when HIPAA is not configured

- Open the service software
- Select "Configuration"
- Select "User" under "Local Host"
- Deselect "Random Password" under "Account for Administrator"
- Enter "arcadisvaric" under "or give Password"
 - You can also enter your own password instead of "arcadisvaric"
- Under "Confirm", repeat the password you entered under "or give Password"
- Click "save"
- Click "Home"
- Close the service software
- Select "Option" in the task card
- Select "End Session"
- Select "Log Off"
 - ⇒ The following displays:
This will end your session
Are you sure you want to log off?

- Click "yes"
 - ⇒ The following displays after a brief delay:
"Log On to Windows"
- Enter "administrator" under "User name"
- Under "Password", enter the password previously defined in the service software
- Click "ok"
 - You now have administrator privileges
 - ⇒ The customer user interface is no longer displayed.
 - ⇒ The "Start" button is available in the bottom menu bar

NOTE

You can change the password using the service software at any time.

Logoff when HIPAA is not configured

- Click "Start"
 - ⇒ The "Start" button is available in the bottom menu bar
 - ⇒ The following displays:
"What do you want the computer to do?"
- Select "Restart"
- Click "o.k."
 - ⇒ The syngo counter appears.
 - ⇒ The user interface is displayed again.

Explorer

Opening Explorer

- Open the service software
- Under Home Menu, select “Utilities”
- Under Source, select “Escape to OS”
- Under Command, select “NT Command Interpreter”
- Under Parameter, select the “explorer” command
- Press “go”
 - The Explorer is displayed.

NOTE

You can minimize the “Local Service Window” in order to be able to view the Explorer.

Writing Explorer data to CD

- Open the service software
- Under Home Menu, select “Configuration”
- Under Service, select “Backup/Restore”
- Enter a name under Package
 - e.g. special
- Click on “add”
- Under “file & dir”, enter the path and name of the file to be stored
 - This path can be found after opening the Explorer. For example, enter the following for saving the service log file: c:\ASPIA\service\extract\ (name of file)
- Click on “save”
- Click on “Home”
- Click on “Backup / Restore”
 - You can now create a backup as usual. You will find the name entered by you listed below the other packages.

Log files

NOTE

To create a current log file for the examination sets and to save this during a "burn log file" operation, the examination set step must always be performed.

Creating an examination sets file

- Open the service software
- Click on "Reports"
- Click "Exam sets" under "Remote diagnostics".
 - This creates the "examination set configuration" file.

Creating the service log file and developer file

- Press "Ctrl" + "Alt" (to the right of the spacebar) + "S".
The service log file and developer file are created.

Creating a service log file

Possibility 1

- Open the service software
- Click "Configuration" or "Main System"
- Select the "Save Log" button in the upper command line
 - The service log file is created.

Possibility 2

- Open the service software
- Under Home Menu, select "Utilities"
- Under Source, select "Escape to OS"
- Under Command, select "Create ASPIA Save Log"
- Click "go"
 - The service log file is created.

Creating a syngo log file

- Open the service software
- Under Home Menu, select "Utilities"
- Under Source, select "Escape to OS"

- Under Command, select “Create ASPIA syngo Save Log”
- Click on “Go”
 - The developer log file is created.

Creating a developer log file

- Open the service software
- Under Home Menu, select “Utilities”
- Under Source, select “Escape to OS”
- Under Command, select “Create ASPIA Developer Save Log”
- Click on “Go”
 - The Syngo SaveLog log is created.

Writing log files to CD

- Open the service software
- Select the “Eventlog”
- In the upper command line, click on the item “Burn Log-Files”
 - The service log file is created.
- All of the files contained in the extract folder are saved to CD-ROM.

NOTE

If this causes an error message, you can write the log file as described in the item “Writing Explorer data to CD”

Med User

The Med User group includes all persons that work with the system. This means that everybody can also log on with the general Med User password.

The difference of this password - within the individual systems - is in the last three characters. These last three characters (see XXX) are the same as the unique computer name assigned to the PC by the manufacturer.

The Med User password is:

@med@Userxxx

Example:

The computer name assigned by the manufacturer is: YB6781235

The Med User password would be as follows: @med@User235

Service software

Open the service software

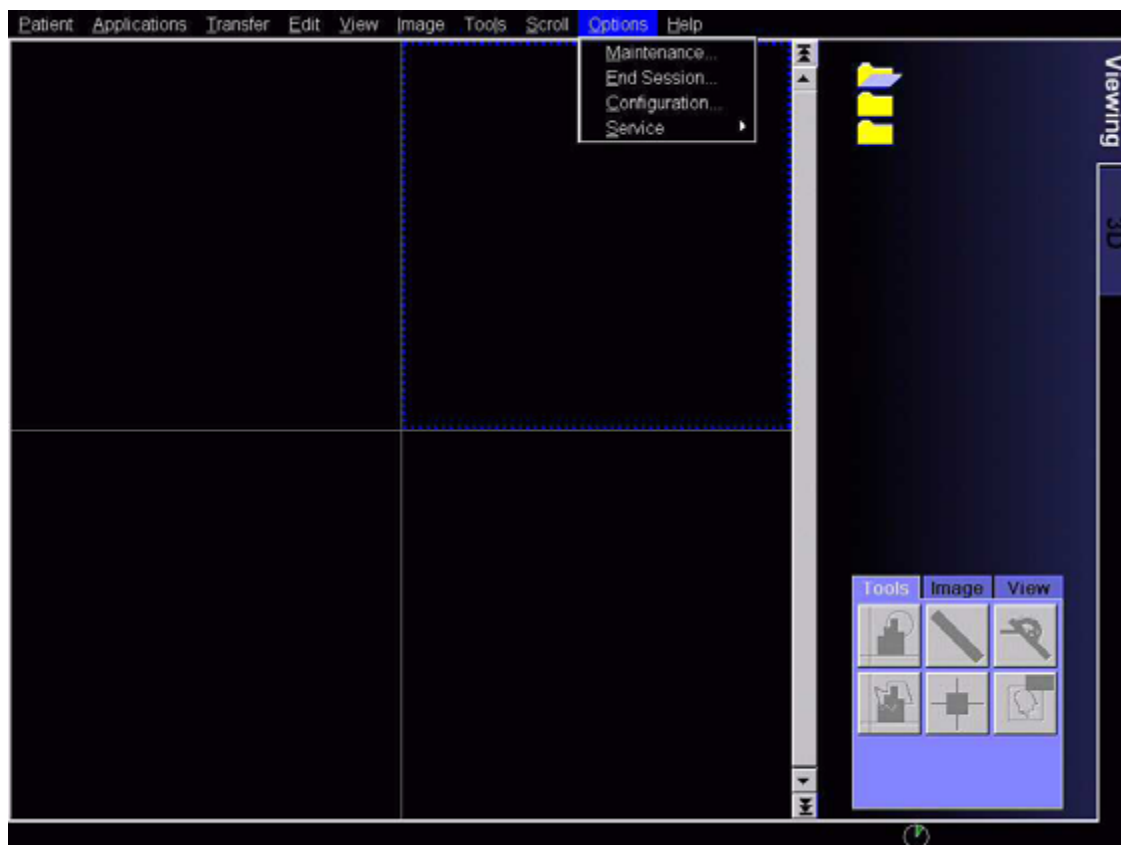


Fig. 1: C06_5_01

- Select "Service" under "Options".

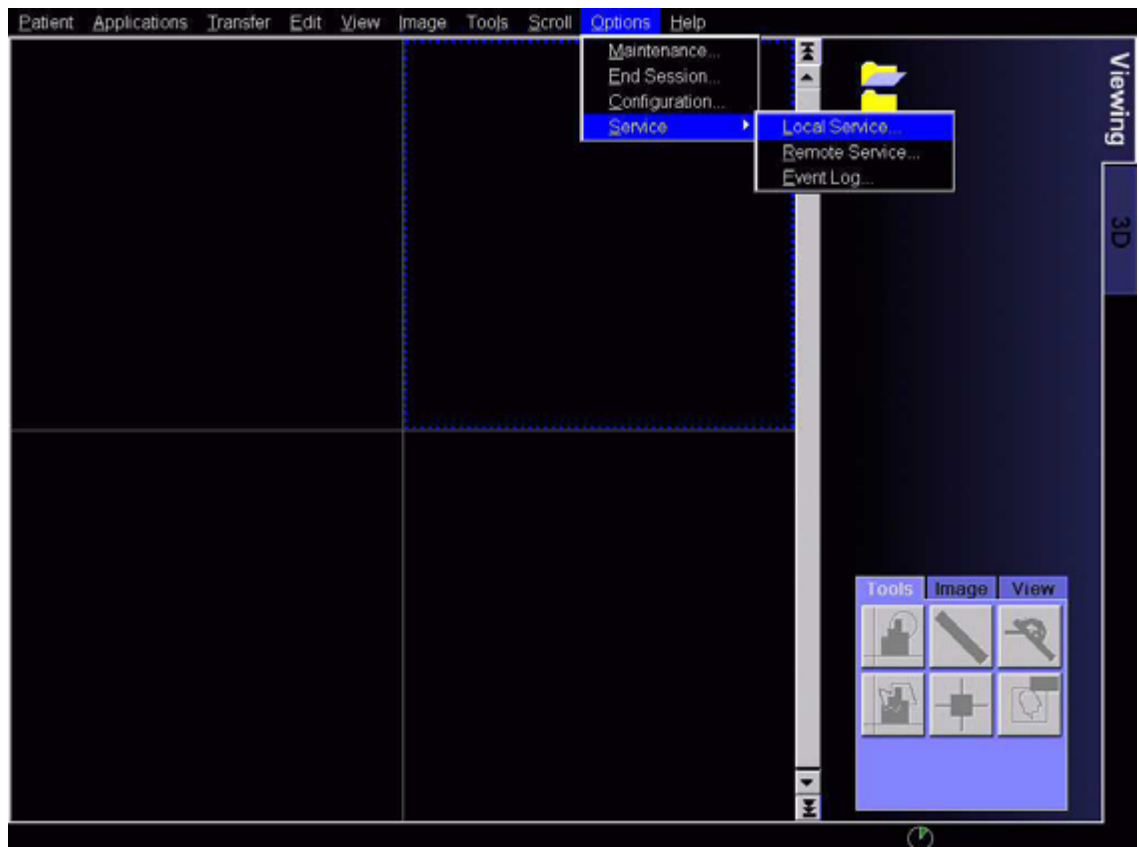


Fig. 2: C06_5_02

- Select "Local service"

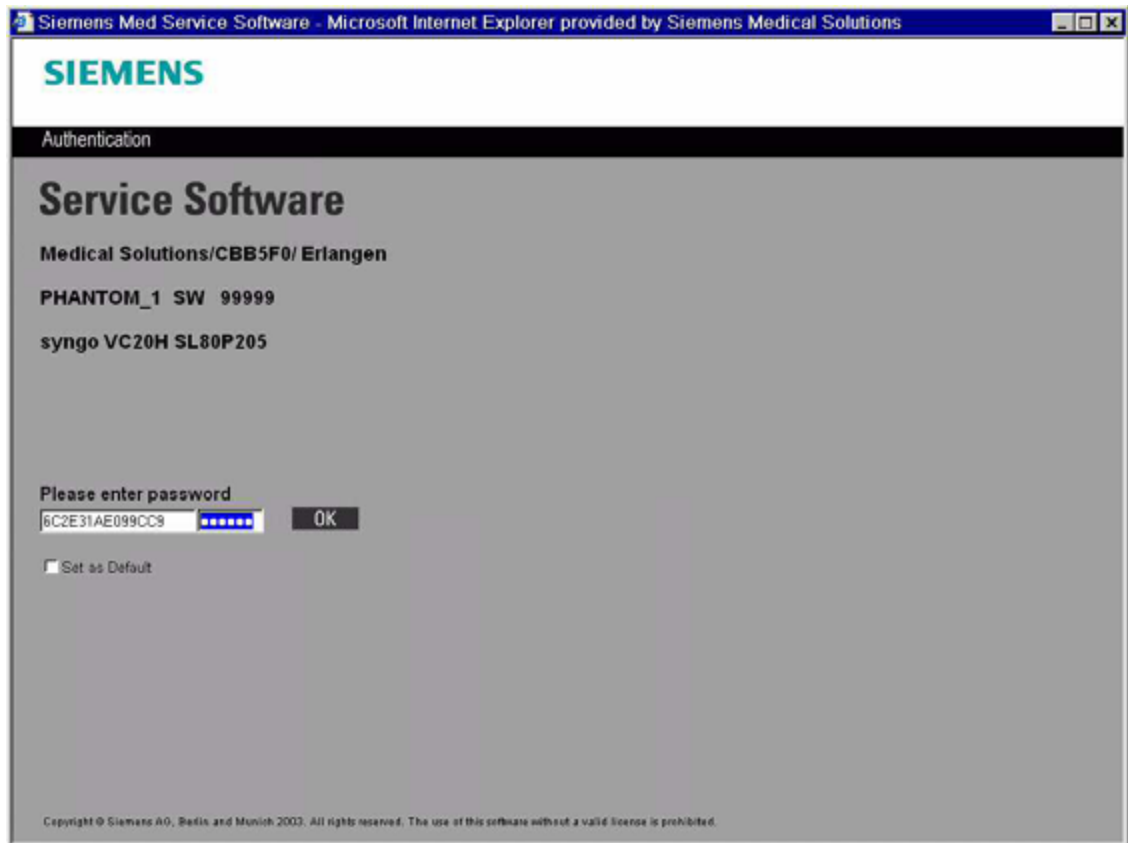


Fig. 3: C06_5_03

- Enter the service key under "Please enter password".
- Select "Set as default".
- Confirm with "OK".
 - ⇒ The "Home menu" is displayed.



Fig. 4: Home Menu

A**Acquire an image**

- Select the "examination" task card
- Register the patient
 - This can also be an "emergency" patient
- Press the fluoroscopy button

C

Check the disk space

- Log on as administrator
- Select the Windows start button and click the right mouse button
- Click on Explorer
- Select "My Computer"

Drive "C"

- Select drive "C:"
- Click the right mouse button
- Select "Properties"
 - The "capacity", "free space" and "used space" are displayed
- Check if the "free space" is at least 15% of the "capacity"
If the "free space" is less than 15% of the "capacity"
- In Explorer under drive C: select the "Temp" directory
- Select "View" in the upper command line
- Click "List"
- Select a file from the files displayed in the "Temp" directory
- Press the "Ctrl" and "A" keys at the same time
 - This selects all files in the "Temp" directory
- Press the "Shift" and "Delete" keys
 - The following dialog box is displayed: "Are you sure you want to delete....."
- Click "Yes"
 - This deletes files currently not in use.
 - The message "Cannot delete" is displayed.
- Click "OK".
- Right-click on "Recycle bin"
- Select "Empty Recycle Bin" in Explorer
 - If "Empty Recycle Bin" cannot be selected, it is already empty

Drive "D"

- Select drive "D"
- Click the right mouse button
- Select "Properties"
 - The "capacity", "free space" and "used space" are displayed
- Check if the "free space" is at least 15% of the "capacity"
- If the "free space" is less than 15% of the "capacity"

- Right-click on "Recycle bin"
- Select "Empty Recycle Bin" in Explorer
 - If "Empty Recycle Bin" cannot be selected, it is already empty
- Switch off the system and then restart it

No network available

- Save the patients on CD-ROM as described in the operating instructions
- After the patients have been successfully stored, delete them from the present system

Network available

- Save the patients in an available archive as described in the operating instructions
- After the patients have been successfully stored, delete them from the present system

NOTE

Drive E: must not be checked from the imaging system view.

Check that the connections to the imaging system PC are ok

- Remove the rear panel from the monitor trolley
- Check all connections at the rear of the imaging system PC

Check the networking configuration

- Open the service software
- Select "Configuration"
- Select "TCP/IP LAN" under "Local host"
- Make sure that "Obtain an IP address from DHCP server" is not selected
- Make sure that the entries for "IP address", "subnet mask" and "gateways" are correct

Check the interface cable and connectors between main system

- Ensure that the monitor trolley is connected to the main system
- Ensure that no contact is bent at the plug of the connection cable

Check that enough physical memory is available and the PC is not blocked by swapping to virtual memory

- No "Action" is possible in this instance
 - This message is not included when reviewing the software.

Check the size of the directories containing temporary files

- Log on as administrator
- Select the Windows start button and click the right mouse button
- Open Explorer
- Select "My Computer"

Drive "C"

- Select drive "C"
- Click the right mouse button
- Select "Properties"
 - The "capacity", "free space" and "used space" are displayed
- Check if the "free space" is at least 15% of the "capacity"
If the "free space" is less than 15% of the "capacity"
- In Explorer under drive C: select the "Temp" directory
- Select "View" in the upper command line
- Click "List"
- Select a file from the files displayed in the "Temp" directory
- Press the "Ctrl" and "A" keys at the same time
 - This selects all files in the "Temp" directory
- Press the "Shift" and "Delete" keys
 - The following dialog box is displayed: "Are you sure you want to delete....."
- Click "Yes"
 - This deletes files currently not in use.
- Right-click on "Recycle Bin" in Explorer
- Select "Empty Recycle Bin"
 - If "Empty Recycle Bin" cannot be selected, it is already empty

Deleting the jobs created for writing to a CD-ROM

"C:\AN_CDR_DIR" stores the jobs of the operating system that were created for writing to a CD-ROM

These are stored until the write process is completed.

If jobs are still contained in this file, without a write process taking place, these jobs can be deleted as follows.

- Select "My Computer"
- Select drive "C:\AN_CDR_DIR"
 - This is only shown if "DICOM offline devices" has been configured
- Select or mark the files to be deleted
- Click the right mouse button
- Select "Delete"

- This completely deletes all print jobs

Check the CAN connection to the main system

- Ensure that the monitor trolley is connected to the main system
- Ensure that no contact is bent at the plug of the connection cable
- Remove the rear panel from the monitor trolley
- Check all connections at the rear of the imaging system PC
- In particular, ensure that the USB-to-CAN adapter is connected and its green light is lit

Check the network connection to the navigation system

- Ensure that the connection cable is connected to the monitor trolley and the navigation system
- Ensure that the correct cable type is being used
 - A direct connection requires a crossover Ethernet cable
 - A connection via a hub or switch requires a normal Ethernet cable
- Test the connection by clicking on "Network nodes" under Configuration in the service software
- Select the name entered for the navigation system under "Select host"
 - ⇒ The host name and TCP/IP address are displayed
- Click "Test"
 - ⇒ A message regarding the existence of a connection is displayed
- If there is no connection, make sure that "Obtain an IP address from DHCP server" is not selected
- If there is no connection, make sure that the "IP address", "subnet mask", and "gateway" have been entered correctly.

Check the navigation system

- Ensure that the navigation system is switched on
- Ensure that the correct work step (calibration or recording) is selected on the navigation system.
 - Consult with navigation system operating personnel about the "correct work step"

Check limit switches

- Remove the cable module cover
- Release the brake and manually move the C-arm
- Ensure that the limit switches switch before the C-arm reaches the mechanical limit stop

- If the limit switch does not switch, adjust it
- Check the cabling of the limit switches

Check cabeling

- Remove the cable module cover
- Release the brake and manually move the C-arm
- Ensure that the limit switches switch before the C-arm reaches the mechanical limit stop
- If the limit switch does not switch, adjust it
- Check the cabling of the limit switches

Check limit switch to see if the top and bottom were not mismatched during installation

- Remove the cable module cover
- Release the brake and manually move the C-arm
- Ensure that the limit switches switch before the C-arm reaches the mechanical limit stop
- If the limit switch does not switch, adjust it
- Check the cabling of the limit switches

Check the adjustment of the orbital potentiometer

- Select "3D adjustment/potentiometer" under "Main system"
- Perform the steps for the orbital potentiometer und angulation potentiometer as described under "Description"

Check the coupling unit

- Check fuse F2 on printed circuit board D200
- Check whether 24V are present at the coupling unit
- If this is the case, the coupling unit may be defective

Check connection to the main system

- Ensure that the monitor trolley is connected to the main system
- Ensure that no contact is bent at the plug of the connection cable
- Remove the rear panel from the monitor trolley
- Check all connections at the rear of the imaging system PC
- Ensure that the USB-to-CAN adapter is connected and its green light is lit

Check if the correct file was used

- No "Action" is possible in this instance
 - This message is not included in the next version

Check if the USB-to-CAN compact module is plugged into an USB-port to the PC

- Remove the rear panel from the monitor trolley
- Ensure that the USB-to-CAN module is connected to the imaging system PC via USB and its green light is lit
 - The light must be green to indicate correct functioning

Check if the LED called USB on the USB-to-CAN compact module. It should be green for proper usage

- ·Remove the rear panel from the monitor trolley
- ·Ensure that the LED on the USB-to-CAN module is green.
 - The LED must be green to indicate correct functioning

Check driver

- Select "System" in the control panel
- Select Hardware -> Device Manager
- Check if there is an IXXAT CAN interface and if it is working properly
- Log on as administrator
- Select "Settings"
- Select "Control panel"
- Click on "Switch to classic view"
- Double-click on "IXXAT interfaces"
 - ⇒ The "IXXAT interface" window is displayed
- Select "USB-to-CAN"
- Click "Test"
 - ⇒ A "Board info" window is displayed and indicates whether the test was successful
- If the test was not successful, unplug the USB plug of the USB-to-CAN module from the PC and wait 5 seconds
- Plug the USB plug back into the PC
 - ⇒ The driver is installed
- Click "Test" again

Check the LAN connections of

- The C-arm
- The navigation system
- Plug the USB-to-CAN compact module into the PC
- Allow the driver to install automatically

Step 1

- Ensure that the monitor trolley is connected to the main system or the navigation system
- Ensure that no contact is bent at the plugs of the connection cable
- Ensure that the USB-to-CAN module is connected to the imaging system PC via USB and its green light is lit
- Unplug the USB plug of the USB-to-CAN module from the PC and wait 5 seconds
- Plug the USB plug back into the PC
 - ⇒ The driver is reinstalled
- Ensure that the correct cable type for the navigation system is being used
 - A direct connection requires a crossover Ethernet cable
 - A connection via a hub or switch requires a normal Ethernet cable
- Test the connection by clicking on "Network nodes" under Configuration in the service software
- Select the name entered for the navigation system under "Select host"
 - ⇒ The host name and TCP/IP address are displayed
- Click "Test"
 - ⇒ A message regarding the existence of a connection is displayed
- If there is no connection, make sure that "Obtain an IP address from DHCP server" is not selected
- If there is no connection, make sure that the "IP address", "subnet mask", and "gateway" have been entered correctly and that the connection cable is plugged into the monitor trolley and the navigation system.

Step 2

- Log on as administrator
- Select "Settings"
- Select "Control panel"
- Click on "Switch to classic view"
- Double-click on "IXXAT interfaces"
 - ⇒ The "IXXAT interface" window is displayed
- Select "USB-to-CAN"

- Click "Test"
 - ⇒ A "Board info" window is displayed and indicates whether the test was successful
- If the test was not successful, unplug the USB plug of the USB-to-CAN module from the PC and wait 5 seconds
- Plug the USB plug back into the PC
 - ⇒ The driver is installed
- Click "Test" again

Check the event log for other errors

- Search for other messages in the event log during the same time segment

D

Disable the DICOM option in the local service list of options page or import the needed license

Disable the DICOM option

- Open the service software
- Select "Configuration"
- Remove the selection of the respective DICOM option in the "List of system options"

Import the DICOM license

- Open the service software
- Select "Configuration"
- Select "Licensing" under "Service"
- Select the license file via "Browse"
- Select "Import license file"
- Click on "Save"

Download SMC_PLUS software and restore all backup packages from the main system via service software

- Open the service software
- Select "Main system"
- Depending on the system, select "ARCADIS Varic" or "ARCADIS Orbic"
- Select "C-arm" under "Download"
- Select the drive containing the SMC_Plus file under "Drive"
- Select the "SMC_Plus file"
- Press the "Compare" button
- Check that the SMC_Plus line is selected with a "v".
- Click on the "Download" button
- Close the "main system" pages
- Perform a "Restore" of the "main system" package

E

Examine the terminal strip on the motor unit

- Remove the 3D drive cover
- Check the cabling connections

F

For more information look at the extended text for this id

- Mark "Extended text" in the event log
- Start the event log via the "Go" button
 - The "Extended text" is consequently also displayed in the event log file
- Try to localize the error using the displayed text

G**Give unique name for the ExamSet**

This setting can be changed as follows:

- Select "Options" on the examination task card
- Select "Configuration"
- Double-click "Examination set config..."
- Select the "Save as ..." button
- Enter a name
 - which has not been used yet
 - which has a maximum length of 20 letters

I

If there are really memory allocation problems, you should also see problems with other imaging system applications in the event log

- Search for other messages in the event log during the same time segment

If driver reports problems:

- Uninstall the IXXAT CAN interface
- Unplug the USB-to-CAN compact module
- Plug the USB-to-CAN compact module into the PC
- Allow the driver to install automatically
- Log on as administrator
- Select "Settings"
- Select "Control panel"
- Click on "Switch to classic view"
- Double-click on "IXXAT interfaces"
 - ⇒ The "IXXAT interface" window is displayed
- Select "USB-to-CAN"
- Click "Test"
 - ⇒ A "Board info" window is displayed and indicates whether the test was successful
- If the test was not successful, unplug the USB plug of the USB-to-CAN module from the PC and wait 5 seconds
- Plug the USB plug back into the PC
 - ⇒ The driver is installed
- Click "Test" again

L**Load 3D-Images from the scan that failed**

- No "Action" is possible in this instance
 - This message is not included in the next version

Load 3D-Images from another patient and make sure that loading images is working

- No "Action" is possible in this instance
 - This message is not included in the next version

P

Please, configure a new number of the LUTs in the Servicesoftware under Configuration

Configure a new number of LUTs

- Open the service software
- Select "Configuration"
- Select "Exam set configuration" under "Imaging system"
- The number can be modified under "Maximum number of LUTs per examination set"

Please, configure a new number of Edgfe Enhancements in the Servicesoftware under Configuration

Configure a new number of edge enhancements

- Open the service software
- Select "Configuration"
- Select "Exam set configuration" under "Imaging system"
- The number can be modified under "Maximum number of enhancement filters per examination set"

Position the c-arm as it is shown in the service UI

- Ensure that the C-arm is aligned in accordance with the image on the service UI

Perform an adjustment of the angulation potentiometer

- Select "3D adjustment/potentiometer" under "Main system"
- Perform the steps for the orbital potentiometer und angulation potentiometer as described under "Description"

Perform a calibration of the system

- Select "3D calibration" for ORBIC 3D or the navigation system used under "Main system"
- Perform a new calibration

perform a manual orbital movement and check if limit switches are pressed

- E.g. by damaged tape

- Remove the cable module cover
- Release the brake and manually move the C-arm
- Ensure that the limit switches switch before the C-arm reaches the mechanical limit stop
- If the limit switch does not switch, adjust it
- Check the cabling of the limit switches

Perform the 3D adjustment again

- Select "3D adjustment/potentiometer" under "Main system"
- Perform the steps for the orbital potentiometer und angulation potentiometer as described under "Description"
- Select orbital movement und perform these steps as described under "Description"

R

Restore all backup packages via service software

- Open the service software
- Select "Backup & restore"
- Insert the backup CD into the CD-ROM drive.
- Select "Restore" under "Command"
- Select the [R:] CD-R drive under "Drives"

SW-Settings02

- Select the correct (latest) backup file of "SW-Settings02" under "Archive"
- Select all files under "Groups"
- Click "Go"
 - Wait until the "Ready" message is displayed in the footer

ASPIA settings

- Select the correct (latest) backup file of "ASPIA settings" under "Archive"
- Select all files under "Groups"
- Click "Go"
 - Wait until the "Ready" message is displayed in the footer

EXAM set

- Select the correct (latest) backup file of "EXAM set" under "Archive"
- Select all files under "Groups"
- Click "Go"
 - Wait until the "Ready" message is displayed in the footer

Main system

- Select the correct (latest) backup file of "Main system" under "Archive"
- Select all files under "Groups"
- Click "Go"
 - Wait until the "Ready" message is displayed in the footer

Security settings

- Select the correct (latest) backup file of "Security settings" under "Archive"
- Select all files under "Groups"
- Click "Go"
 - Wait until the "Ready" message is displayed in the footer

3D setting

This step is only necessary if a 3D system is available

- Select the correct (latest) backup file of "3D settings" under "Archive"
- Select all files under "Groups"
- Click "Go"
 - Wait until the "Ready" message is displayed in the footer

Retry change**Retry LUT or edge enhancement change****Edge enhancement**

- Press this button on the main system
 - This initiates the change



Fig. 5:

LUT

- Press this button on the main system
 - This initiates the change



Fig. 6:



Fig. 7:

Reinstall

Reinstall the imaging system software

- Please use the "Software Installation" document for this

Reinstall the 3D software

- No "Action" is possible in this instance
 - This message is not included in the next version

Remove Patient-Database

Removing the patient database

NOTE

This deletes all of the data in the patient database

This step should be performed as the last step prior to a new installation.

- Open the service software
- Select "Utilities"
- Select "Database tools" under "Source"
- Select "DB remove" under "Command"
- Click "Go"

S

Save patients on CD or network and remove those patients from the patient browser

Network available

- Save the patients in an available archive as described in the operating instructions
- After the patients have been successfully stored, delete them from the present system

No network available

- Save the patients on CD ROM as described in the operating instructions
- After the patients have been successfully stored, delete them from the present system

Start a scan

- Check if approx. 10V are present at the motor. If so, the motor must be replaced
- Remove the 3D drive cover
- Start the 3D scan
- Check if 10V are present at the motor
- If this is the case and the motor will not move, the motor may be defective

Start a scan

- Check if 24V are present at D10. If not, the system electronics D200 must be replaced
- Remove the 3D drive cover
- Select the 3D task card
- Check fuse F1 on printed circuit board D200
- Check whether a voltage of 24V is present at plug X12 between X12.1 and X12.2 on printed circuit board D10.
- If this is not the case, D200 may be defective.

T

The imaging system PC might be defect

- If all "Actions" listed in this error message ID have been carried out and the error was not corrected, the imaging system PC needs to be replaced

This may be caused by loading images for viewing, filming etc. In this case close all open images

- Select the "Viewing" task card
- Select "Patient"
- Select "Close all"

Test the CAN-Board

- Select Interfaces in the control panel
- The board should appear in the dialog box. If not, reinstall the module
- Select the USB-to-CAN compact module and click on Test. You should receive information about the board.
- Log on as administrator
- Select "Settings"
- Select "Control panel"
- Click on "Switch to classic view"
- Double-click on "IXXAT interfaces"
 - ⇒ The "IXXAT interface" window is displayed
- Select "USB-to-CAN"
- Click "Test"
 - ⇒ A "Board info" window is displayed and indicates whether the test was successful
- If the test was not successful, unplug the USB plug of the USB-to-CAN module from the PC and wait 5 seconds
- Plug the USB plug back into the PC
 - ⇒ The driver is installed
- Click "Test" again

U

Use PC Diagnosis software

Driver check

- Open Explorer
- Select "My Computer"
- Click the right mouse button
- Select "Manage"
- Select "Device manager"
- Check if one of the displayed files is marked in red or with a question mark
 - If this is the case, this indicates a driver error.
- Please inform the respective support center headquarters
 - They will contact the engineering department with regard to this error
- There is nothing else you can do in this case

Hard drive check

- Log on as administrator
- Select the Windows start button and click the right mouse button
- Open Explorer
- Select the individual drives one after the other and perform the following steps
- Click the right mouse button
- Select "Properties"
- Select "Tools"
- Select "Check now"
 - "Check disk options" is displayed
- Do not select "Automatically fix file system errors"
- Select "Scan for and attempt recovery of bad sectors"
- Press "Start"
 - "Checking disk" starts
- Follow the instructions in the displayed message

Hard drive defragmentation**NOTE**

Defragmenting can be time-consuming (up to 2 hours), depending on the size of the hard drive.

- Log on as administrator
- Select the Windows start button and click the right mouse button

- Open Explorer
- Select the individual drives one after the other and perform the following steps
- Select "Properties"
- Select "Tools"
- Select "Defragment now.."
- Select the individual drives one after the other and perform the following steps
- Select "Analysis"
 - A message is displayed with an indication as to whether defragmentation is to be carried out.
- If the message "You do not need to defragment this volume" is displayed, select the next drive
- If the message "You should defragment this volume" is displayed, Select "Defragment"
- Then check the next drive

V**Verify that all components required for 3d exist (see component viewer)**

- No "Action" is possible in this instance
 - This message is not included in the next version

Verify that all components required for 3d are in state running

- No "Action" is possible in this instance
 - This message is not included in the next version

Setting network cards

- Log on as administrator
- Select Windows Start button and right-click with mouse
- Open “Explorer”
- Select “My Computer”
- Right-click with mouse
- Select “Manage”
- Select “Device Manager”
- Double-click on “Network adapters”
 - on the right-hand side
- Double-click on “Network card”
- Select “Advanced”
- Under “Property”, select the item “Link Speed & Duplex”
- Under “Value”, select the required value after agreement with the responsible network administrator
- Click on “OK”
- Close all opened “Windows”
- Switch off the system
 - Wait until the system has completely shut down
- Switch the system on again

NOTE

The network card configuration is now completed.

Changing the IP address in Windows

- Log on as administrator
- Select “My Network places” on the desktop
- Right-click with mouse
- Select “Properties”
- Double-click on “Network Connection”
- Select “General”
- Under “This connection uses the following items”, select the item “Internet Protocol TCP/IP”
- Select “Properties”
 - The window for an IP address change is displayed
- Enter the IP address and subnet mask
- Enter the default gateway, if available
- Press “Apply”
- Click on “OK”
- Close all open “Windows”, except the Explorer

NOTE

If you want to change the computer name as well, continue with the item “Changing the computer name in Windows”. If not, continue with the following steps.

- Switch off the system
 - Wait until the system has completely shut down
- Switch the system on again

NOTE

The IP address entry is now completed.

Changing the computer name in Windows

NOTE

When changing the computer name, remember that it is used internally by database functions.

For this reason, the computer name should only be changed in case of empty patient databases.

- Log on as administrator
- Open “Explorer”

NOTE

You can minimize the “Local Service Window” in order to be able to view the Explorer.

- Select “My Computer”
- Double-click on “Control Panel”
- Select “Performance and Maintenance”
- Click “System”
- Select “Computer Name:”
- Select “Change”
- Enter the computer name
- Click on “OK”
- Click on “OK”
- Close all opened “Windows”
- Switch off the system
 - Wait until the system has completely shut down
- Switch the system on again

NOTE

The “Computer name” entry is now completed.

Installing a local printer

- Log on as administrator
- Select Windows Start button and right-click with mouse
- Select “Settings”
- Select “Printer and Faxes”
- Select “Add a printer”
 - The “Add Printer Wizard” is displayed
- Carry out the installation with the “Add Printer Wizard”
- Restart the system

Backing up ARCADIS Orbic/Varic

Backup

NOTE

A backup must be created after software installation, software update or system adaptation.

NOTE

After a backup group has been successfully burned to CD, the following message is displayed:

”Please insert medium in CD-RW in order to continue.”

Confirm this message with “OK”. This does not require a new CD.

Backup

- Select "Backup & Restore" in the “Service software home menu”
- Insert the backup CD into the CD-ROM drive.



Fig. 8: Backup & Restore >> Command

- Under “Command”, select "Backup".

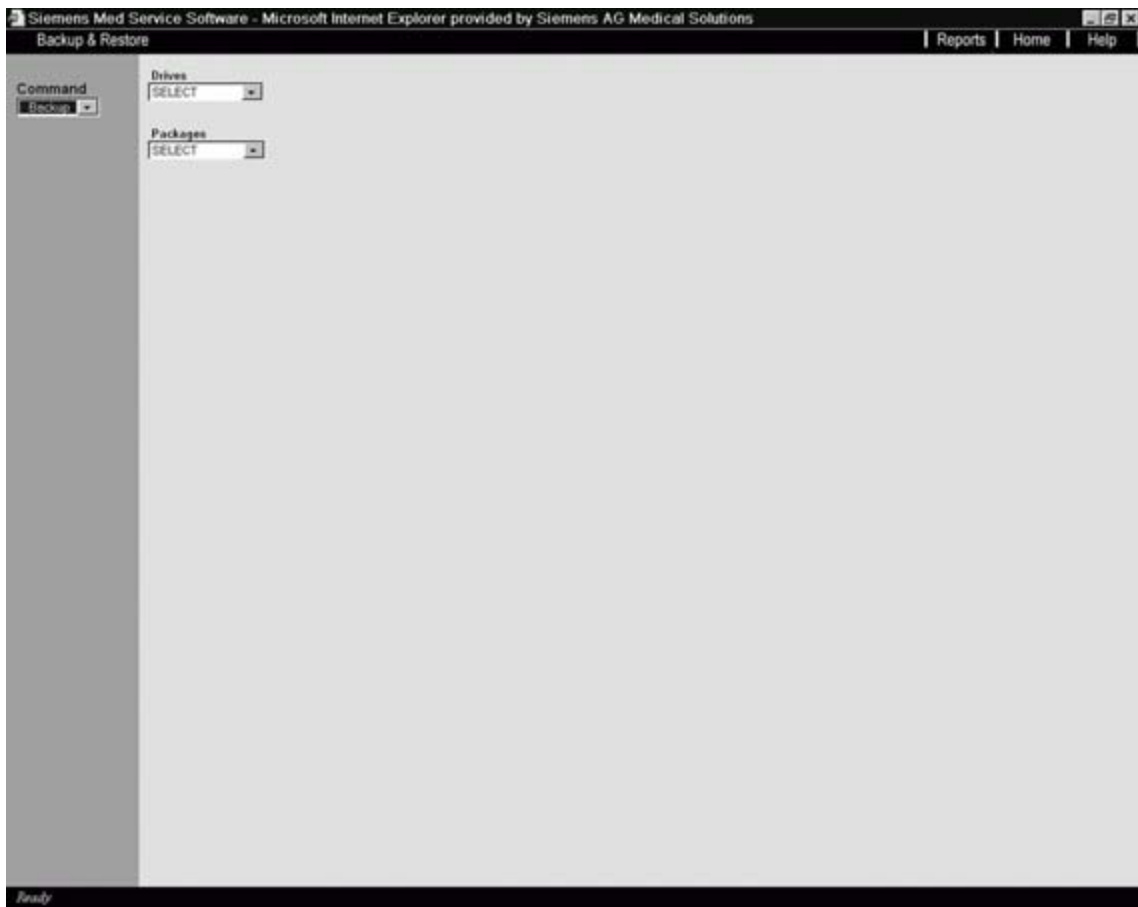


Fig. 9: Backup & Restore >> Command >> Backup

- Select the appropriate drive under “Drives”.
 - Save to CD-ROM (standard save).

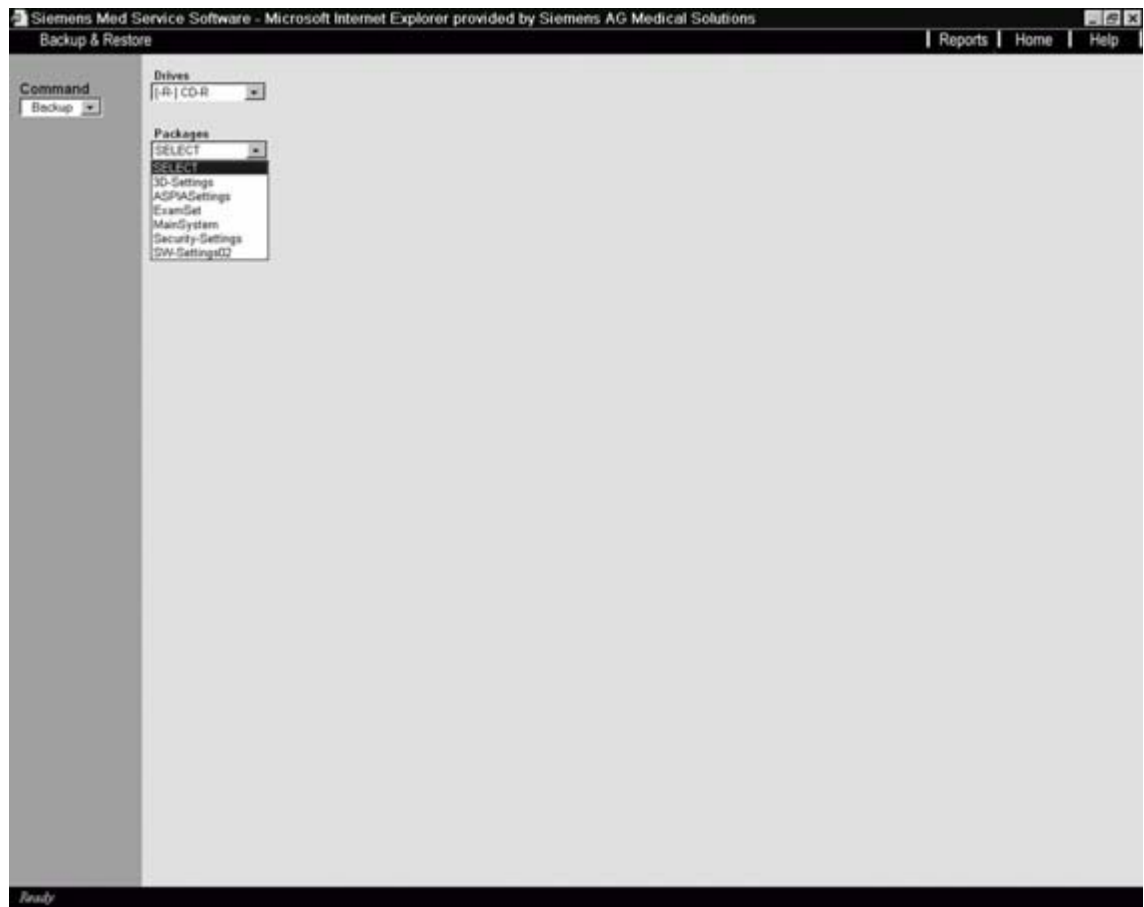


Fig. 10: Backup & Restore >> Command >> Backup >> Packages

SW settings02

- Select "SW-Settings02" under Packages.
- Click "Go".
 - Wait until the "Ready" message is displayed in the footer
- Click on "OK" when the following message is displayed "Please insert medium in CD-RW in order to continue".



Fig. 11: Backup & Restore >> Command >> Backup >> SW-Settings02

ASPIA settings

- Select “ASPIASettings” under Packages.
- Click “Go”.
 - Wait until the “Ready” message is displayed in the footer
- Click on “OK” when the following message is displayed “Please insert medium in CD-RW in order to continue”.

Exam set

- Select “ExamSet” under Packages.
- Click “Go”.
 - Wait until the “Ready” message is displayed in the footer
- Click on “OK” when the following message is displayed “Please insert medium in CD-RW in order to continue”.

3D settings for systems with a 3D option

- Select “3D-Settings” under Packages.
- Click “Go”.
 - Wait until the “Ready” message is displayed in the footer

- Click on “OK” when the following message is displayed ”Please insert medium in CD-RW in order to continue”.

Security settings for systems with HIPAA configuration

- Select “Security-Settings” under Packages.
- Click “Go”.
 - Wait until the “Ready” message is displayed in the footer
- Click on “OK” when the following message is displayed ”Please insert medium in CD-RW in order to continue”.

Mai system

- Select “MainSystem” under Packages.
- Click “Go”.
 - Wait until the “Ready” message is displayed in the footer
- Click on “OK” when the following message is displayed ”Please insert medium in CD-RW in order to continue”.

Exiting backup

- Close the window via “Home”.
- Remove the backup CD-ROM.
- Store the CD-ROM with the system documents.

NOTE

It is not possible to back up the database (patient images)!

Save the patient images to the archive.

Saving to CD-ROM as a long-term archive is prohibited.

Backing up ARCADIS Avantic

Backup

NOTE

A backup must be created after software installation, software update or system adaptation.

Backup

- Select "Backup & Restore" in the "Service software home menu"
- Insert the backup CD into the CD-ROM drive.



Fig. 12: Backup & Restore >> Command

- Under "Command", select "Backup".

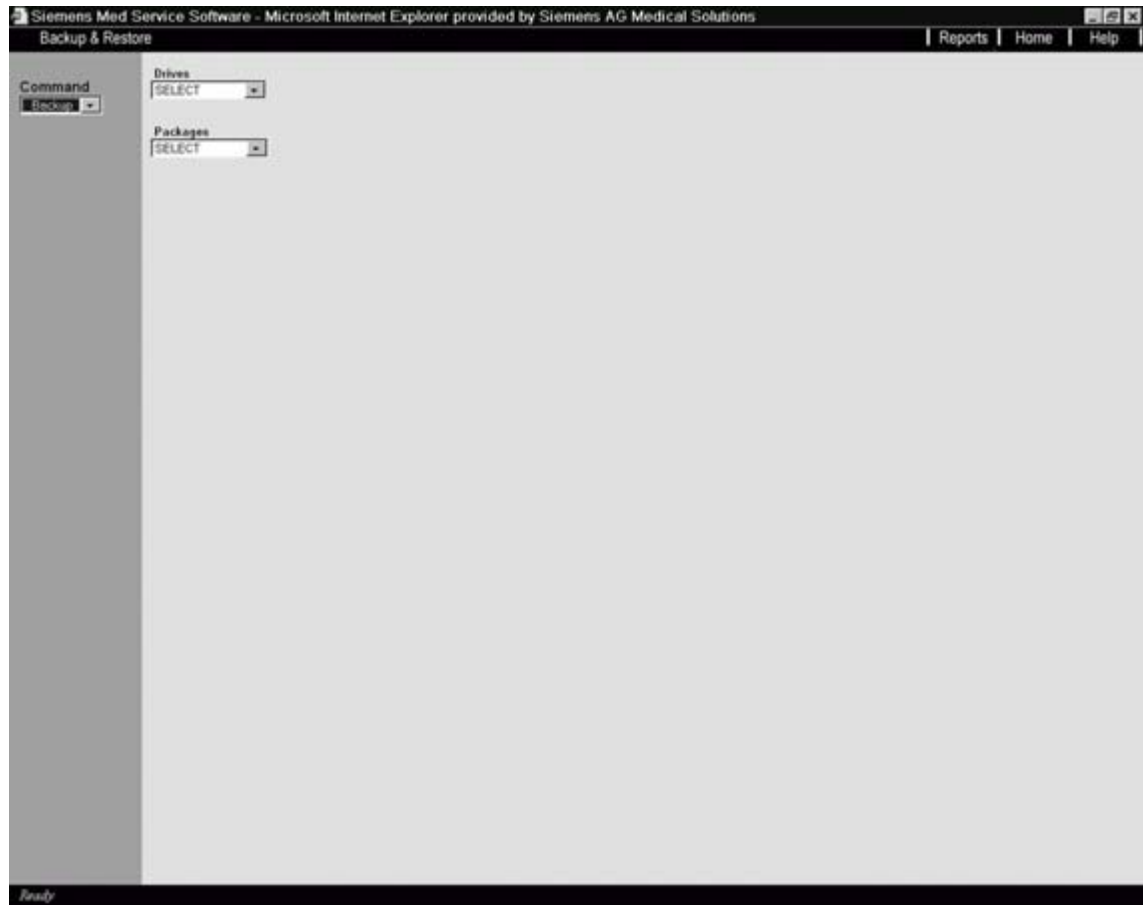


Fig. 13: Backup & Restore >> Command >> Backup

- Select the appropriate drive under “Drives”.
 - Save to CD-ROM (standard save).

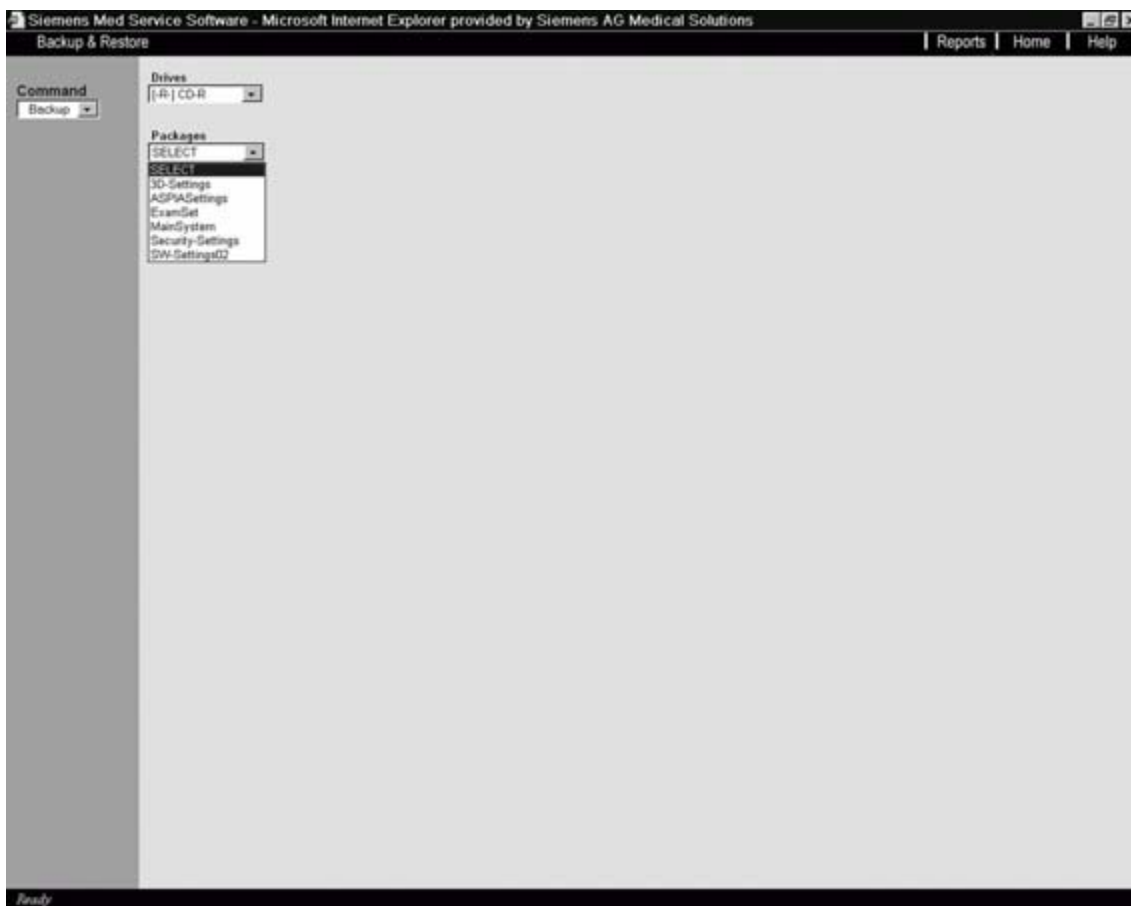


Fig. 14: Backup & Restore >> Command >> Backup >> Packages

SW settings02

- Select "SW-Settings02" under Packages.
- Click "Go".
 - ⇒ The backup is created.
- Wait until "Ready" is displayed in the footer.
 - ⇒ The CD ROM drive opens automatically.



Fig. 15: Backup & Restore >> Command >> Backup >> SW-Settings02

ASPIA settings

- Select "ASPIASettings" under Packages.
- Click "Go".
 - The CD ROM drive closes automatically.
 - The backup is created.
- Wait until "Ready" is displayed in the footer.
 - The CD ROM drive opens automatically.

Exam set

- Select "ExamSet" under Packages.
- Click "Go".
 - The CD ROM drive closes automatically.
 - The backup is created.
- Wait until "Ready" is displayed in the footer.
 - The CD ROM drive opens automatically.

Security settings for systems with HIPAA configuration

- Select "Security-Settings" under Packages.
- Click "Go".
 - ⇒ The CD ROM drive closes automatically.
 - ⇒ The backup is created.
- Wait until "Ready" is displayed in the footer.
 - ⇒ The CD ROM drive opens automatically.

Main system

- Select "MainSystem" under Packages.
- Click "Go".
 - ⇒ The CD ROM drive closes automatically.
 - ⇒ The backup is created.
- Wait until "Ready" is displayed in the footer.
 - ⇒ The CD ROM drive opens automatically.

Exiting backup

- Close the window via "Home".
- Remove the backup CD-ROM.
- Store the CD-ROM with the system documents.

NOTE

It is not possible to back up the database (patient images)!
Save the patient images to the archive.
Saving to CD-ROM as a long-term archive is prohibited.

Restoring ARCADIS Varic/Orbic

Restore

NOTE

Generally backups from one system cannot be imported to another system.

Exceptions are “user-defined exam sets” and the security settings if HIPAA was configured on the system.

NOTE

It must be ensured that the "computer name" used on the system is identical to the one used at the time of the creation of the backup.

If this is not the case, proceed as described under “Computer name”.

NOTE

Follow this sequence for the individual restore groups:

1. "SW-Settings02"
2. "ASPIA settings"
3. "Exam sets"
4. "3D settings"
5. "Security settings"
6. "Main system"

Individual groups can also be imported.

However, you must adhere to the sequence above.

For example:

1. "ASPIA settings"
2. "3D settings"

NOTE

The Examination Set Editor may not be opened.

Computer name**NOTE**

This point is only to be performed when a computer name other than the one on the backup is being used.

- Under "Configuration/Local host/TCP IP LAN" in the service software, enter the "computer name" used for the backup and restart the system.
 - ⇒ No the restore can be performed as described.

NOTE

The computer name can be changed again after the restore. Subsequently create a new backup.

Selecting the storage medium

- Select "Backup & Restore" in the "Service software home menu"
- Insert the backup CD into the CD-ROM drive.

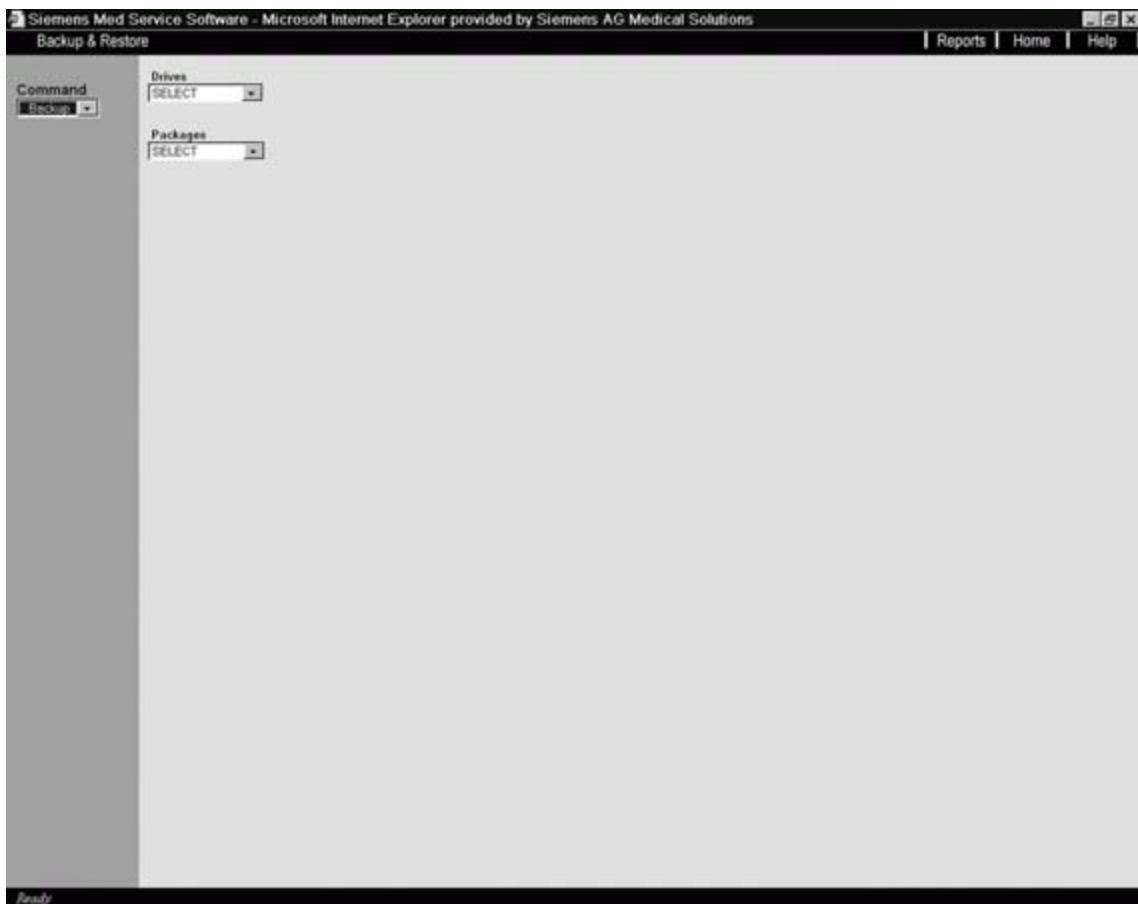


Fig. 16: Backup & Restore >> Command >> Backup

- Under "Command", select "Restore".

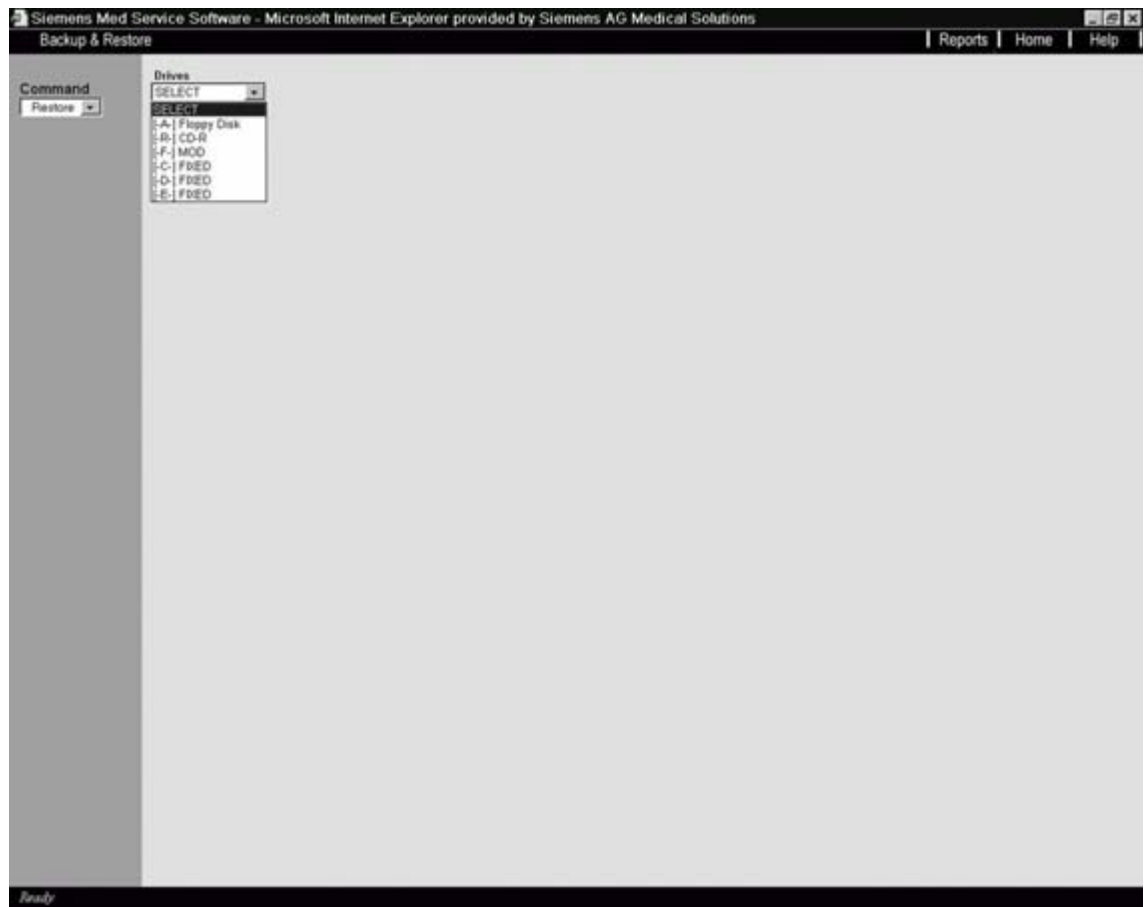


Fig. 17: Backup & Restore >> Command >> Restore >> Drives

- Select the appropriate storage medium under “Drives”.

SW settings02

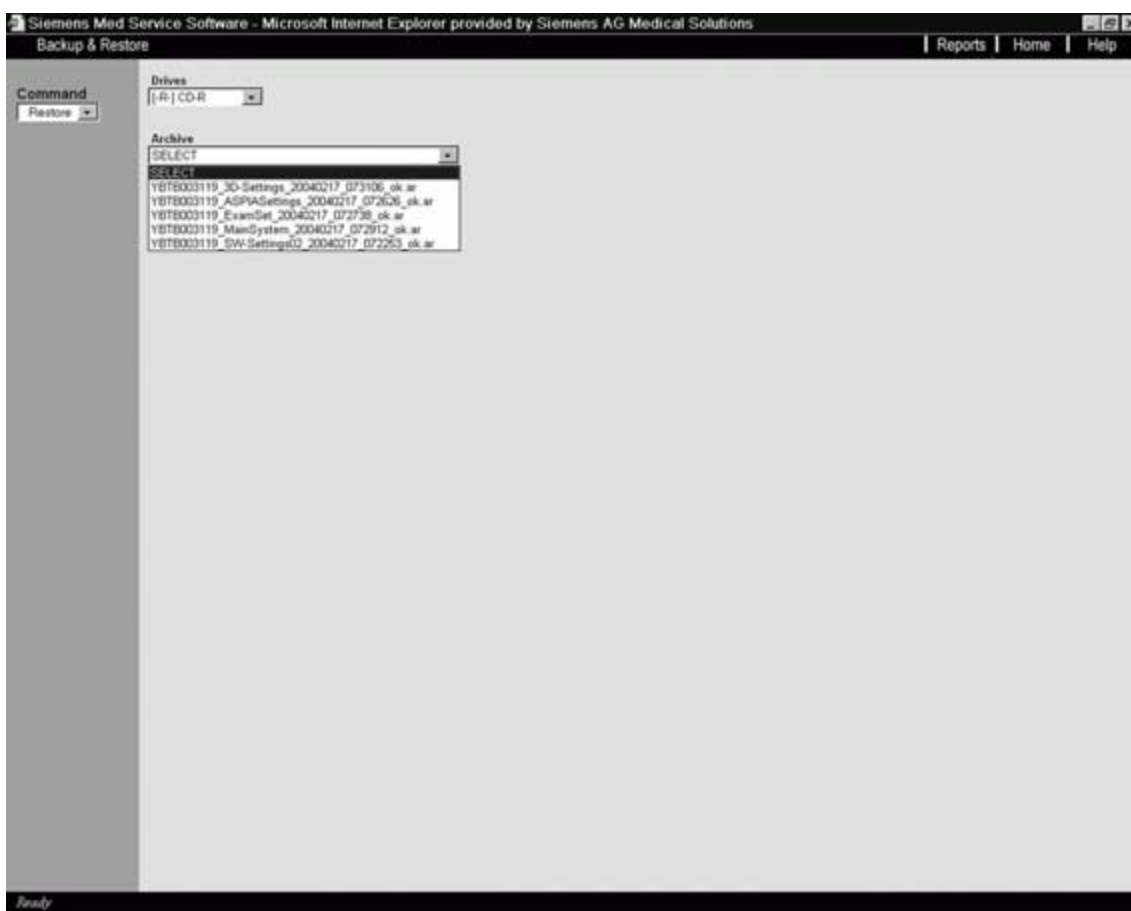


Fig. 18: Backup & Restore >> Command >> Restore >> Archive

- Under Archive, select the correct (newest) backup file of “SW-Settings02”.

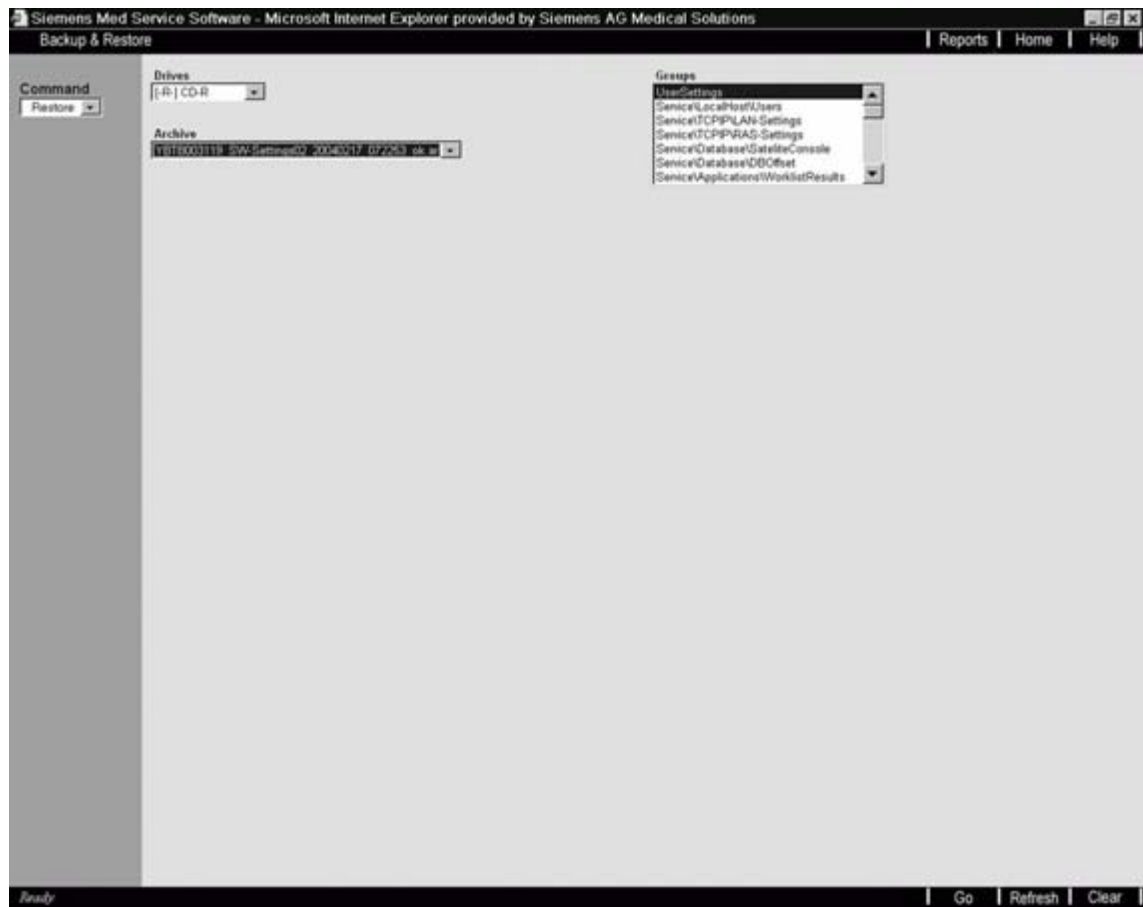


Fig. 19: Backup & Restore >> Command >> Restore >> Groups

- Highlight all the files in “Groups”.
 - e.g., by pressing the “Ctrl” key and clicking the individual groups.
- Click “Go”.
 - Wait until the “Ready” message is displayed in the footer.
 - This might take a few minutes.

ASPIA settings

- Under Archive, select the correct (newest) backup file of “ASPIASettings”.
- Highlight all the files in “Groups”.
 - e.g., by pressing the “Ctrl” key and clicking the individual groups.
- Click “Go”.
 - Wait until the “Ready” message is displayed in the footer.
 - This might take a few minutes.

Exam set

There are four ways of importing exam sets.

NOTE

To ensure proper importing of the examination sets, the examination set editor must be closed.

NOTE

Version 1 and version 2 show the procedure to be used in normal cases.

Versions 3 and 4 are only to be performed when instructed by the head quarter.

Version 1: Importing or updating complete user-defined exam sets

- Under Archive, select the correct (newest) backup file of “ExamSet”.
 - Highlight "User-defined exam sets" under "Groups".
 - Click “Go”.
 - Click "Select all".
 - All exam sets are selected.
 - Select “Import”.
 - This displays the exam sets under “Installed exam sets”.
 - If the exam set already exists under "Installed exam sets", [update] is displayed before the exam set.
 - If the exam set does not exist already under "Installed exam sets", [insert] is displayed before the exam set.
- ⇒ The following image is displayed:

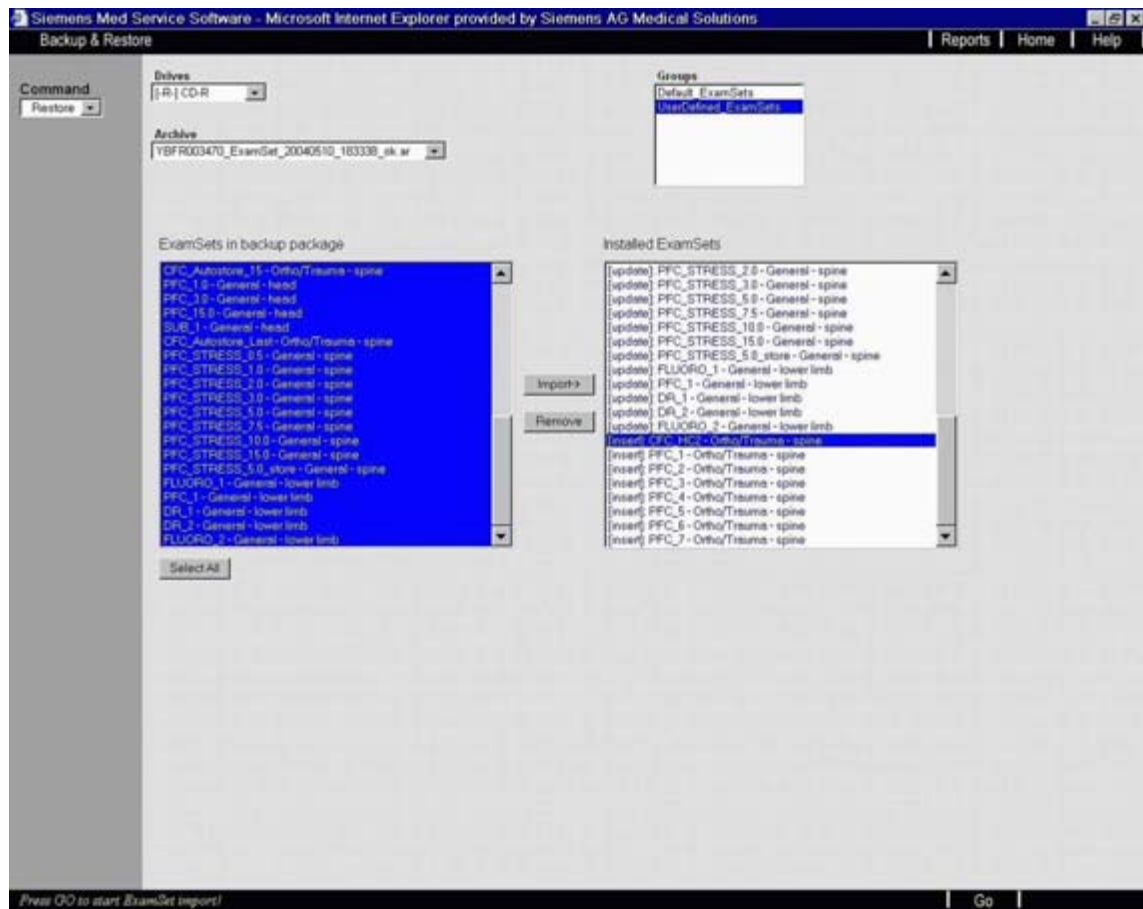


Fig. 20: Restore >> ExamSet >> UserDefinedExamSets2

- Click "Go".
 - This imports all exam sets.
 - Wait until the message "Ready" is displayed in the footer.

Version 2: Importing or updating individual user-defined exam sets

- Under "Archive", select the correct (newest) "Exam set" backup file.
- Highlight "User-defined exam sets" under "Groups".
- Click "Go".
- Click the exam set to be imported.
- Select "Import".
 - This displays the selected exam set under "Installed exam sets".
 - If the exam set already exists under "Installed exam sets", [update] is displayed before the exam set.
 - If the exam set does not exist already under "Installed exam sets", [insert] is displayed before the exam set.

- Click "Go".
 - This imports the exam set.
 - Wait until "Ready" is displayed in the footer.

Version 3: Importing default and user-defined exam sets completely and all together

NOTE

This is only to be performed when instructed by the head quarter.

- Under Archive, select the correct (newest) backup file of "ExamSet".

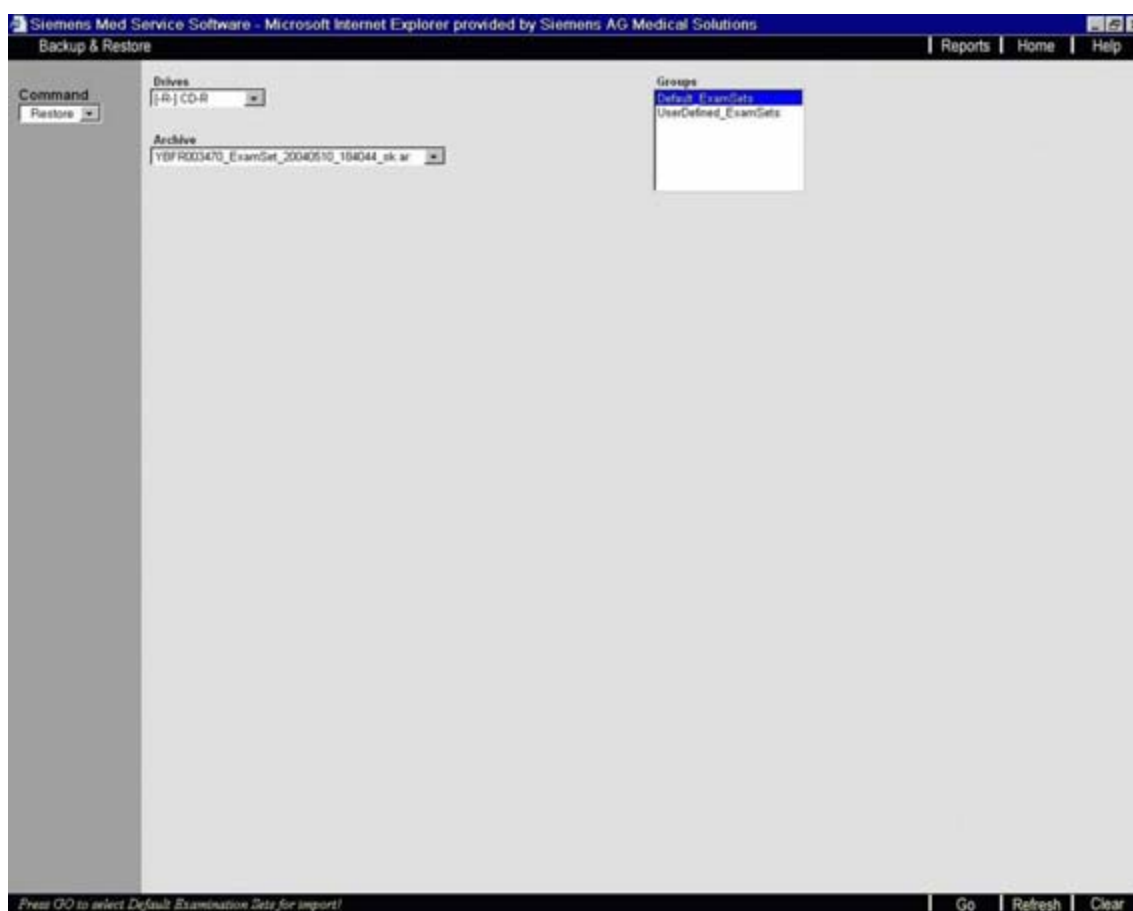


Fig. 21: Restore >> ExamSet (both)

- Highlight the default exam sets and user-defined exam sets under "Groups",
 - E.g., hold down the "Ctrl" key and click both groups.
- Click "Go".
 - Wait until the "Ready" message is displayed in the footer
 - This might take a few minutes.

Version 4: Importing or updating individual default exam sets

NOTE**This is only to be performed when instructed by the head quarter.**

- Under Archive, select the correct (newest) backup file of “ExamSet”.
- Highlight the default exam sets under “Groups”
- Click “Go”.

⇒ The following image is displayed:

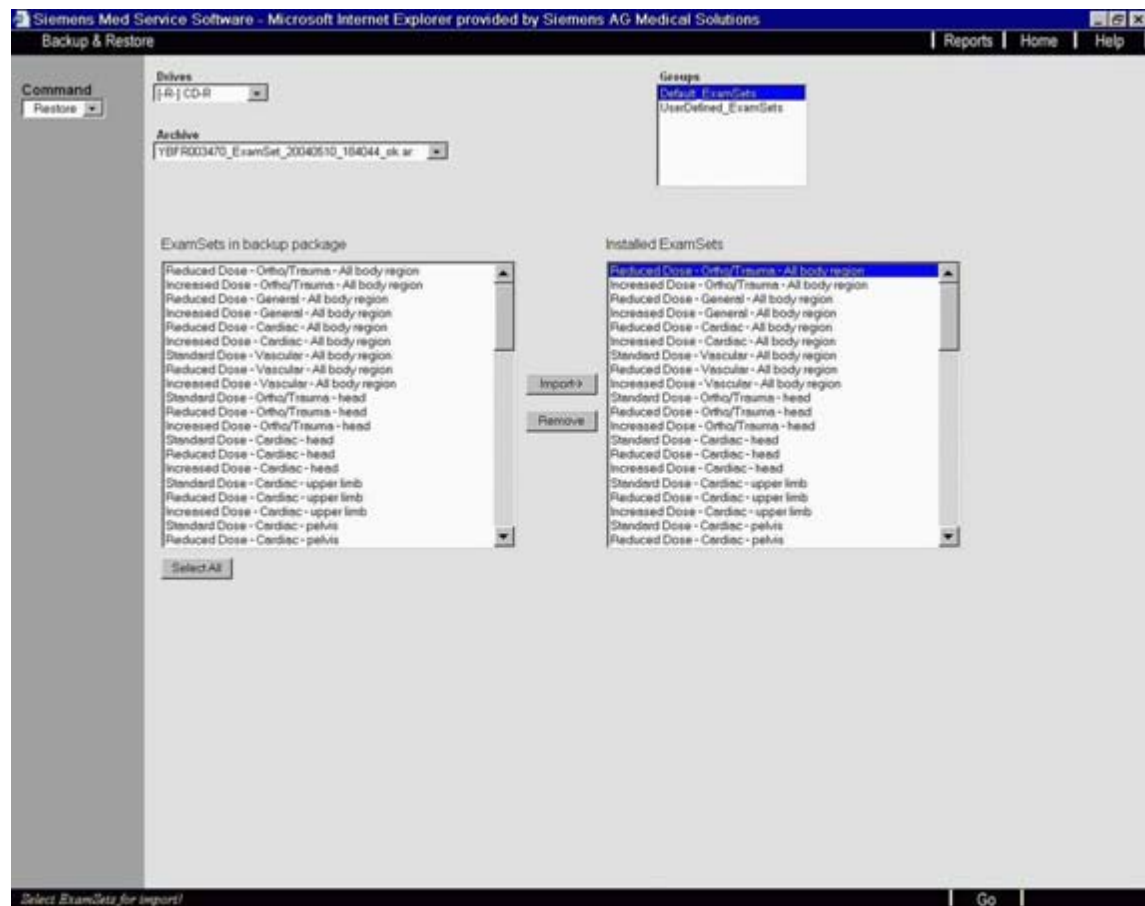


Fig. 22: Restore >> ExamSet >> DefaultExamSets1

- You can select exam sets individually in “Exam sets in backup package”, or you can select all exam sets by clicking “Select all”.
- Select “Import”.
 - This displays the exam sets under “Installed exam sets”.
 - If the exam set already exists under "Installed exam sets", [update] is displayed before the exam set.
 - If the exam set does not already exist under "Installed exam sets", [insert] is displayed before the exam set.
- Click "Remove" to deselect the [update] or [insert] settings shown under "Installed exam sets".

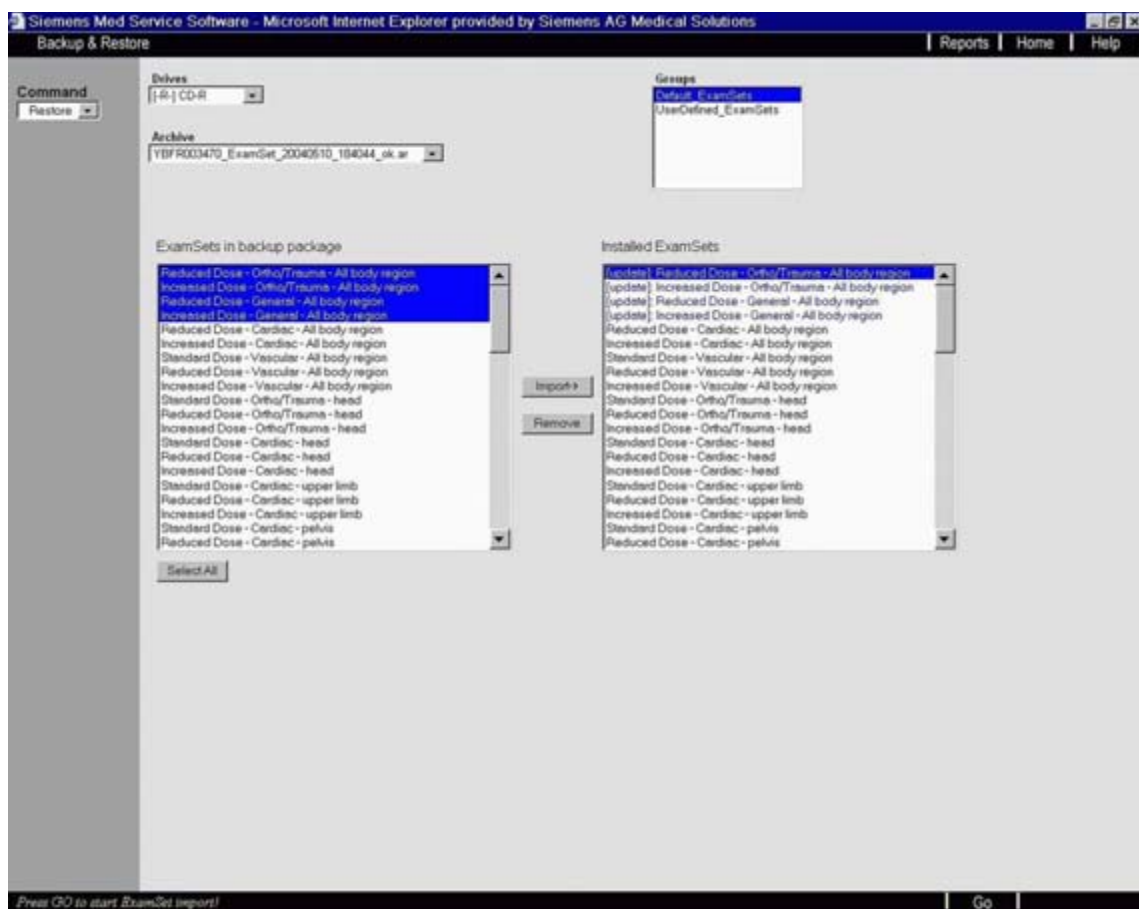


Fig. 23: Restore >> ExamSet >> DefaultExamSets2

- Click “Go”.
 - This imports the selected exam sets.
 - Wait until the message “Ready” is displayed in the footer.

3D settings for systems with a 3D option

- Under Archive, select the correct (newest) backup file of “3D-Settings”.
- Highlight all the files in “Groups”.
 - e.g., by pressing the “Ctrl” key and clicking the individual groups.
- Click “Go”.
 - Wait until the “Ready” message is displayed in the footer
 - This might take a few minutes.

Security settings for systems with HIPAA configuration**NOTE**

Once the security setting is imported, it can no longer be deactivated within the configuration.

In order to perform changes after importing settings, a complete reinstallation of imaging system the software is necessary.

- Under "Archive", select the correct (newest) "Security settings" backup file.
- Highlight all the files in "Groups".
 - e.g., by pressing the "Ctrl" key and clicking the individual groups.
- Click "Go".
 - Wait until the "Ready" message is displayed in the footer
 - This might take a few minutes.

Main system**NOTE**

A restore operation is only necessary when printed circuit board D1 in the main system was replaced or the parameters are to be overwritten.

It is not necessary to perform a restore operation or make any adjustments after an imaging system software installation or a main system software installation. The parameters are stored in EE Prom.

- Under Archive, select the correct (newest) backup file of "MainSystem".
- Highlight all the files in "Groups".
 - e.g., by pressing the "Ctrl" key and clicking the individual groups.
- Click "Go".
 - Wait until the "Ready" message is displayed in the footer.
 - This might take a few minutes.

Transferring the restore data

- Close the window via "Home".
- Remove the backup CD-ROM.
- Store the CD-ROM with the system documents.
- Switch the system off completely. If this does not switch off the imaging system PC, switch it off using the BIOS reset button (under the keyboard).
- Switch on the system again

NOTE

The exchange database is created.

(Takes approx. 20 minutes).

The system should not be switched off while the exchange database is being created.

- ⇒ A window with the following text is displayed:
- "Warning: database creation in progress. This will last a long time. Wait until the patient registration dialog is open! Press OK to close this message box!"

System message

The following system messages are possible.

- Click "OK" when the following system message is displayed: "The version of ASPIA and the version of the main system are not compatible. Please call a service technician."
- Click "OK" when the following system message is displayed: "Attention! The monitor trolley was exchanged. Impact on the image impression of the system can not be excluded. Please use the C-arm that belongs to this monitor trolley".

NOTE

Any error messages displayed can be ignored or ended with "OK".

Activating the ASPIA settings**NOTE**

The ASPIA setting data is already on the system and is activated by the following steps.

- Open the service software.
- Select "Configuration".
- Click "Next".

Valid main system

- Select "Valid main system" if it is not displayed automatically.
- Click "Save".
- Click "Next".

Application fields

- Click "Save".
- Click "Next".

Examination set configuration

- Click "Save".
- Click "Next".

Edge enhancement filters

- Click "Save".
- Click "OK".
- Click "Next".

Windowing LUT

- Click "Save".
- Click "OK".
- Click "Next".

Logarithm LUT

- Click "Save".
- Click "OK".
- Click "Next".

Metering section file

- Click "Save".
- Click "OK".
- Click "Next".

Display settings

- Click "Save".
- Click "Next".

Subtraction parameters

- Click "Save".
- Click ">".
- Click "Save".
- Click "Next".

Power-off parameters

- Click "Save".
- Click "Next".

Brightness control

- Click "Save".
- Click "Next".

Camera

- Click "Save".
- Click "Next".

Circle mask

- Click "Save".
- Click "Next".

- Close the service window via "Home".
- Switch the system off completely. If this does not switch off the imaging system PC, switch it off using the BIOS reset button (under the keyboard).
- Switch the system on again.

NOTE

This completes the restore operation.

NOTE

It is not possible to restore the database (patient images)!
Patient images can be reimported from the archiving medium via the patient browser.

Restoring ARCADIS Avantic

Restore

NOTE

Generally backups from one system cannot be imported to another system.

Exceptions are

- "User defined Exam Sets" and
- "Security Settings" if HIPAA has been configured on both systems.

NOTE

Follow this sequence for the individual restore groups:

1. "SW-Settings02"
2. "ASPIA settings"
3. "ExamSet"
4. "Security Settings"
5. "MainSystem"

Individual groups can also be imported.

However, you must adhere to the sequence above.

For example:

1. "ASPIA settings"
2. "ExamSets"

NOTE

The Examination Set Editor may not be opened.

Selecting the storage medium

- Select "Backup & Restore" in the "Service software home menu"
- Insert the backup CD into the CD-ROM drive.

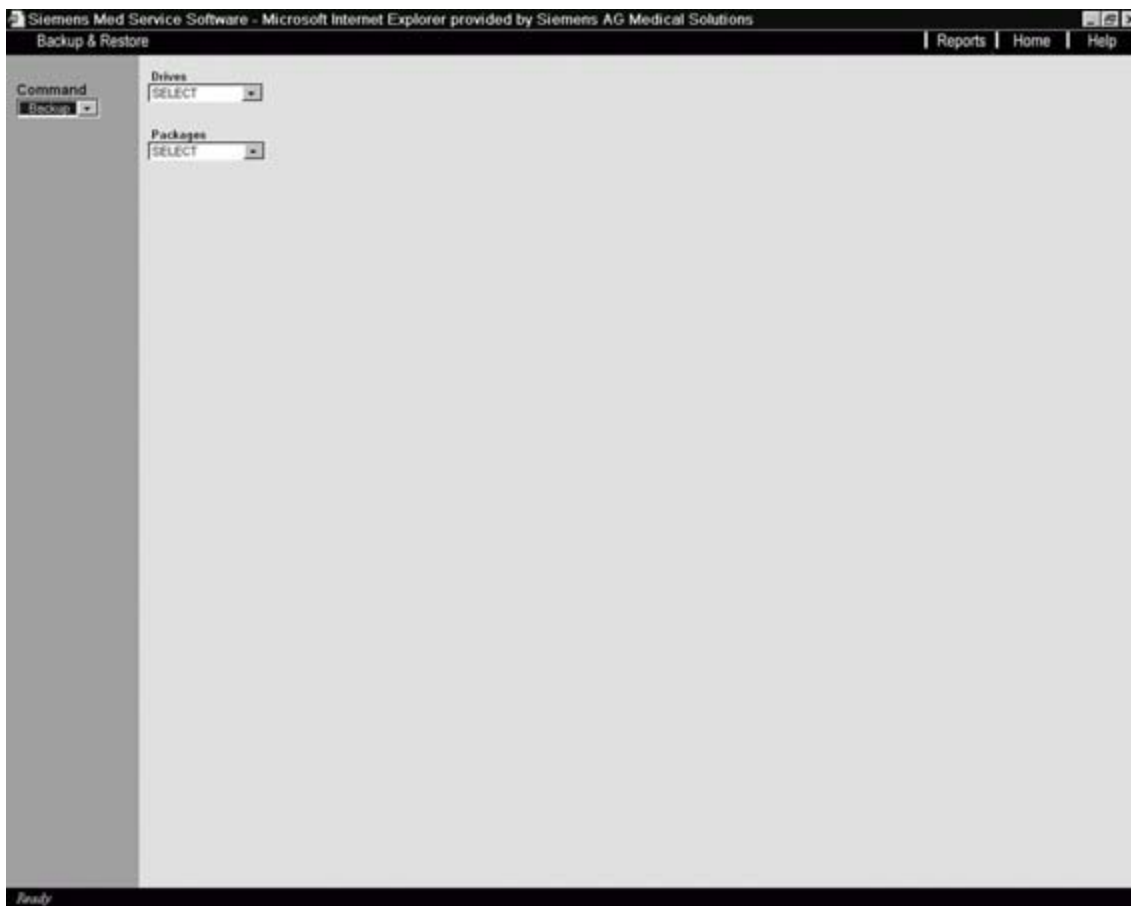


Fig. 24: Backup & Restore >> Command >> Backup

- Under "Command", select "Restore".

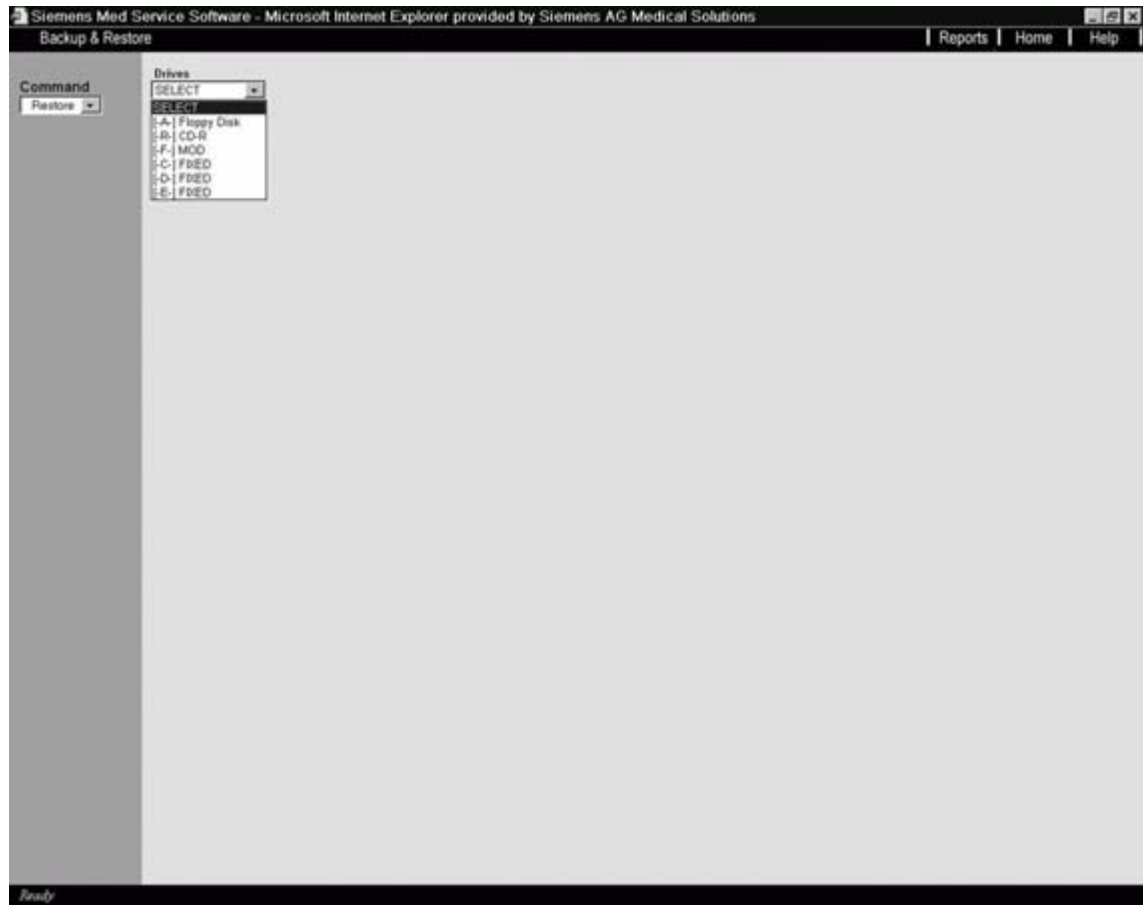


Fig. 25: Backup & Restore >> Command >> Restore >> Drives

- Select the appropriate storage medium under “Drives”.

SW settings02



Fig. 26: Backup & Restore >> Command >> Restore >> Archive

- Under Archive, select the correct (newest) backup file of “SW-Settings02”.

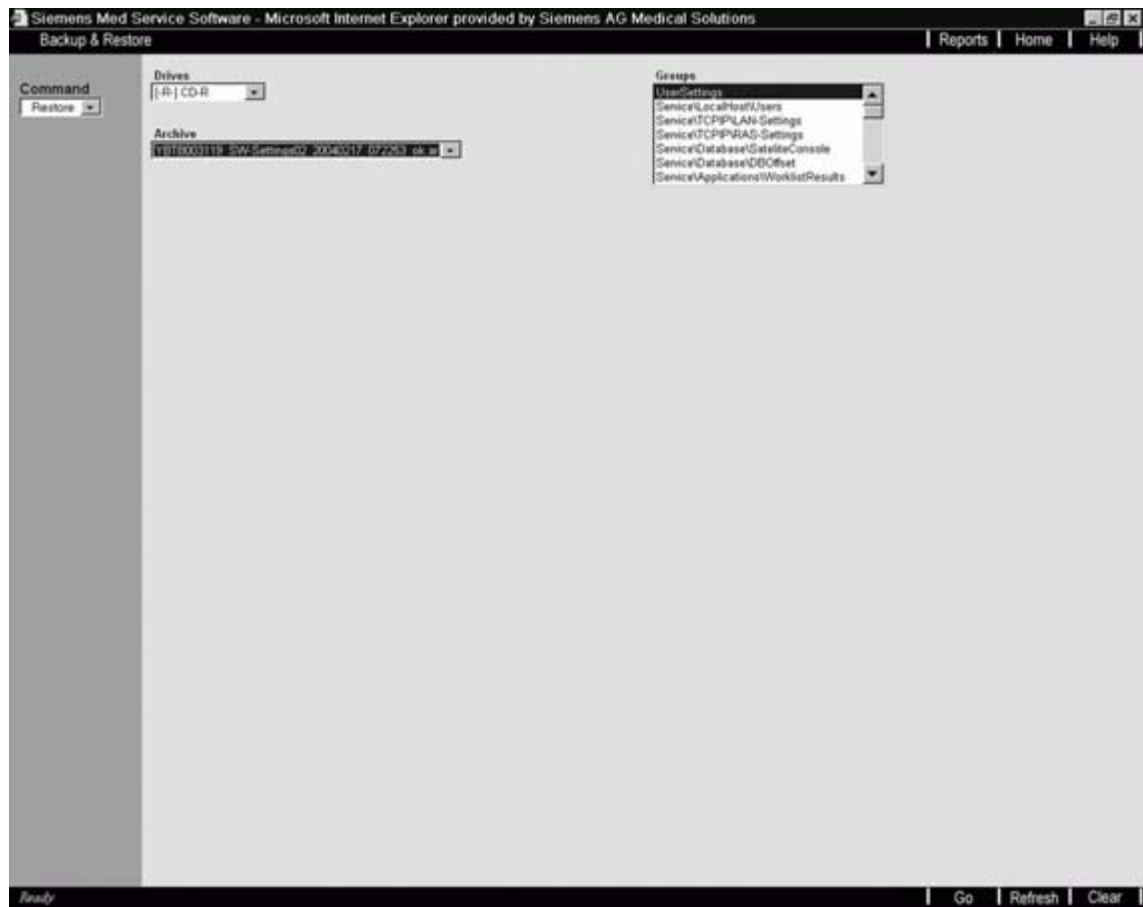


Fig. 27: Backup & Restore >> Command >> Restore >> Groups

- Highlight all the files in “Groups”.
 - e.g., by pressing the “Ctrl” key and clicking the individual groups.
- Click “Go”.
 - ⇒ The restore is performed.
- Wait until "Ready" is displayed in the footer.
 - This can take several minutes.
 - ⇒ The following window appears:

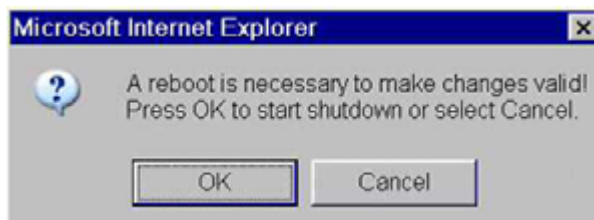


Fig. 28: Restore_reboot

- Remove the CD from the CD-ROM drive.

NOTE

If the CD is not removed from the CD-ROM drive, there is a possibility that the system will no longer recognize the CD drive.

If this is the case, remove the CD, switch the system off, and then switch it on again.

- Click "OK".
 - ⇒ The imaging system reboots automatically.

ASPIA settings

- Select "Backup & Restore" in the Service Software Home Menu.
- Insert the backup CD into the CD-ROM drive.
- Under "Command", select "Restore".
- Under "Drives", select the respective storage medium.
- Under "Archive", select the correct (newest) backup file of "ASPIASettings".
- Highlight all the files in "Groups".
 - e.g., by pressing the "Ctrl" key and clicking the individual groups.
- Click "Go".
 - ⇒ The restore is performed.
- Wait until "Ready" is displayed in the footer.
 - This can take several minutes.
 - ⇒ The following window appears:



Fig. 29: *Restore_reboot*

- Remove the CD from the CD-ROM drive.

NOTE

If the CD is not removed from the CD-ROM drive, there is a possibility that the system will no longer recognize the CD drive.

If this is the case, remove the CD, switch the system off, and then switch it on again.

- Click "OK".
 - ⇒ The imaging system reboots automatically.

Exam set

There are 2 variations for importing ExamSets.

NOTE

To ensure proper importing of the examination sets, the examination set editor must be closed.

NOTE

Version 1 and version 2 show the procedure to be used in normal cases.

All other possible variations can be carried out only upon instruction of the central office and are described separately as required.

Version 1: Importing or updating complete user-defined exam sets

- Select "Backup & Restore" in the Service Software Home Menu.
- Insert the backup CD into the CD-ROM drive.
- Under "Command", select "Restore".
- Under "Drives", select the respective storage medium.
- Under "Archive", select the correct (newest) backup file of "ExamSet".
- Highlight "User Defined ExamSets" and "Filter_Files" under "Groups".

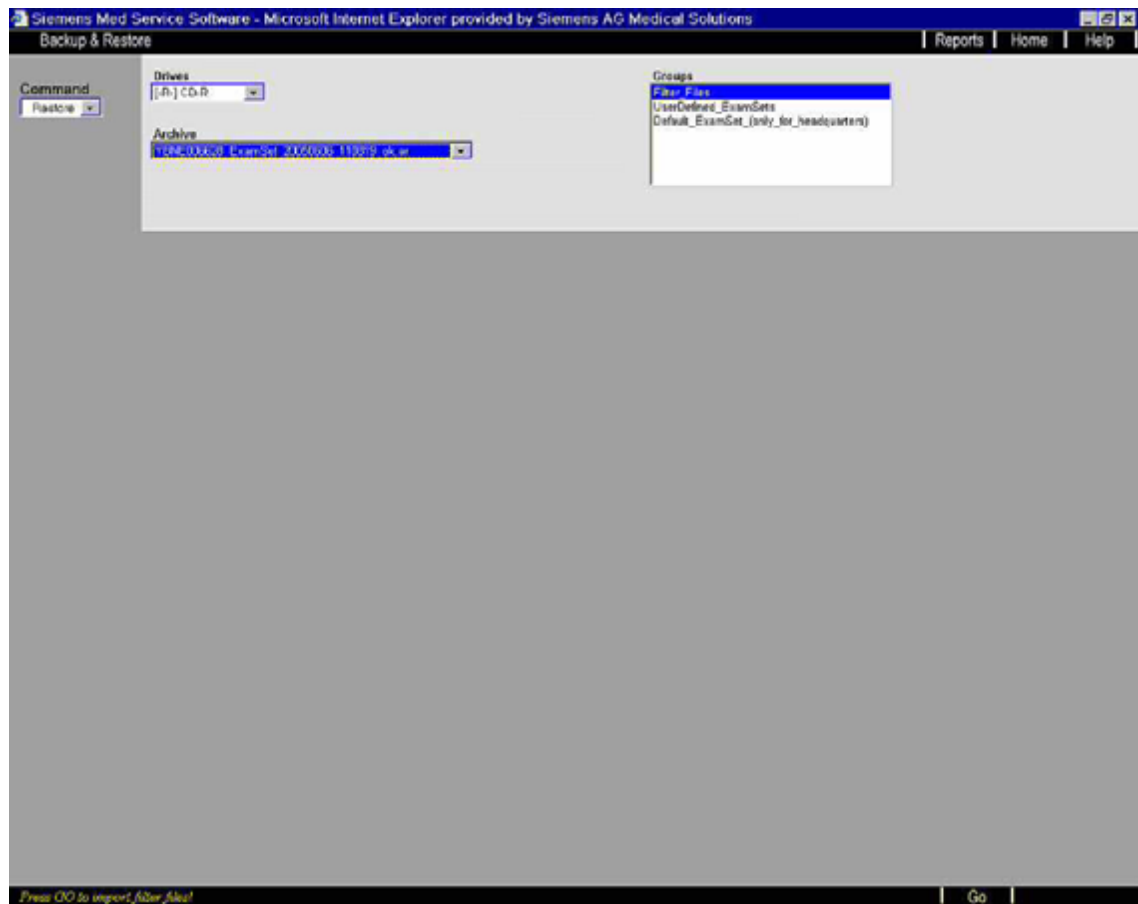


Fig. 30: Restore_ExamSet_FilterSet

- Click "Go".
 - ⇒ A window appears for the selection of ExamSets.
- Click "Select all".
 - All exam sets are selected.
- Select "Import".
 - This displays the exam sets under "Installed exam sets".
 - If the exam set already exists under "Installed exam sets", [update] is displayed before the exam set.
 - If the exam set does not exist already under "Installed exam sets", [insert] is displayed before the exam set.

⇒ The following image is displayed:

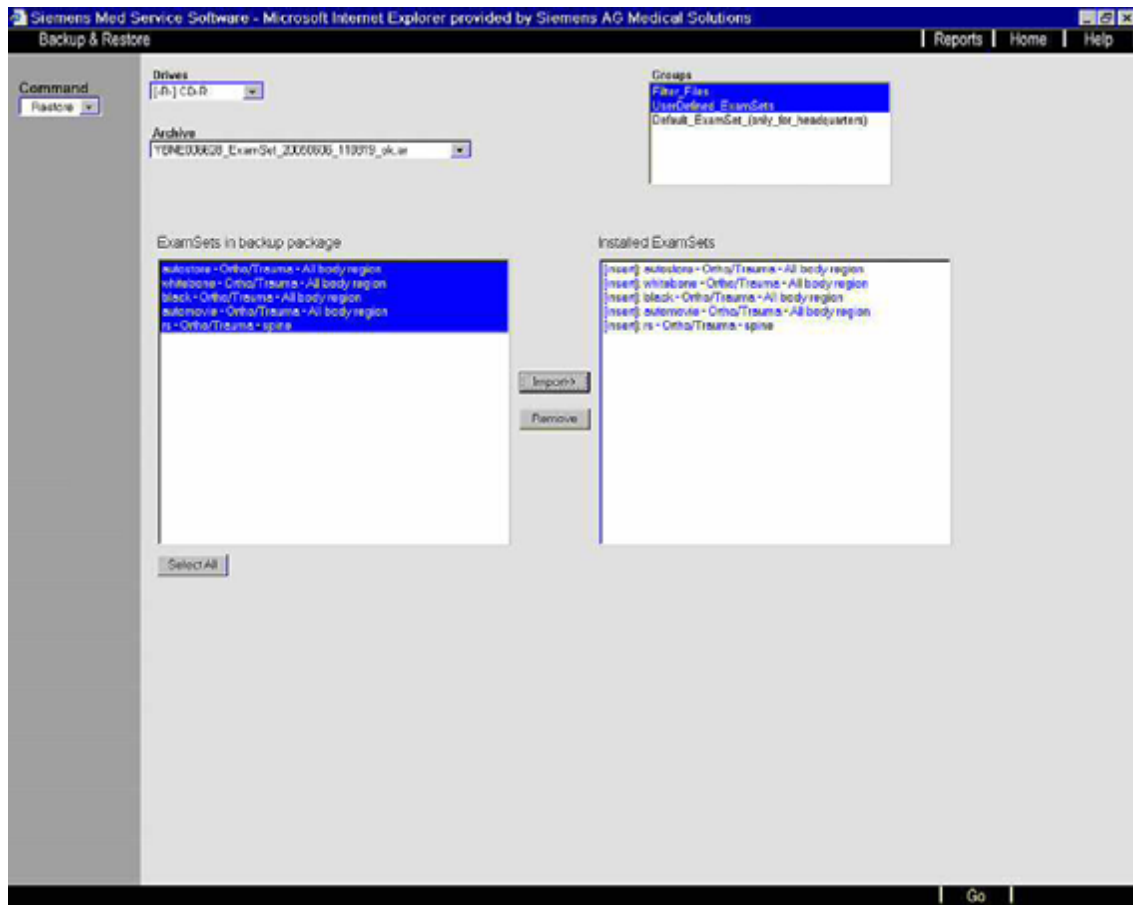


Fig. 31: Restore_ExamSet_FilterFiles_Use_Import

- Click "Go".
 - ⇒ The restore is performed.
- Wait until "Ready" is displayed in the footer.
 - This can take several minutes.
 - ⇒ The following window appears:

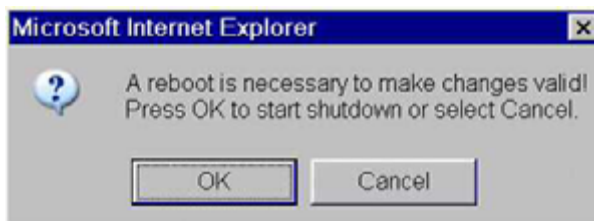


Fig. 32: Restore_reboot

- Remove the CD from the CD-ROM drive.

NOTE

If the CD is not removed from the CD-ROM drive, there is a possibility that the system will no longer recognize the CD drive.

If this is the case, remove the CD, switch the system off, and then switch it on again.

- Click "OK".
 - ⇒ The imaging system reboots automatically.

Version 2: Importing or updating individual user-defined exam sets

- Select "Backup & Restore" in the Service Software Home Menu.
- Insert the backup CD into the CD-ROM drive.
- Under "Command", select "Restore".
- Under "Drives", select the respective storage medium.
- Under "Archive", select the correct (newest) "Exam set" backup file.
- Highlight "User Defined ExamSets" and "Filter_Files" under "Groups".
- Click "Go".
- Click the exam set to be imported.
- Select "Import".
 - This displays the selected exam set under "Installed exam sets".
 - If the exam set already exists under "Installed exam sets", [update] is displayed before the exam set.
 - If the exam set does not exist already under "Installed exam sets", [insert] is displayed before the exam set.
- Click "Go".
- Click "Go".
 - ⇒ The restore is performed.
- Wait until "Ready" is displayed in the footer.
 - This can take several minutes.
 - ⇒ The following window appears:

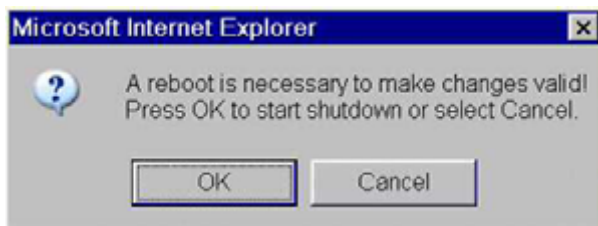


Fig. 33: *Restore_reboot*

- Remove the CD from the CD-ROM drive.

NOTE

If the CD is not removed from the CD-ROM drive, there is a possibility that the system will no longer recognize the CD drive.

If this is the case, remove the CD, switch the system off, and then switch it on again.

- Click "OK".
 - ⇒ The imaging system reboots automatically.

Importing the default ExamSets**NOTE**

This procedure may be carried out only upon instruction of the central office and is described separately as required.

Security settings for systems with HIPAA configuration**NOTE**

Once the security setting is imported, it can no longer be deactivated within the configuration.

In order to perform changes after importing settings, a complete reinstallation of imaging system the software is necessary.

- Select "Backup & Restore" in the Service Software Home Menu.
- Insert the backup CD into the CD-ROM drive.
- Under "Command", select "Restore".
- Under "Drives", select the respective storage medium.
- Under "Archive", select the correct (newest) "Security settings" backup file.
- Highlight all the files in "Groups".
 - e.g., by pressing the "Ctrl" key and clicking the individual groups.
- Click "Go".
 - ⇒ The restore is performed.
- Wait until "Ready" is displayed in the footer.
 - This can take several minutes.
 - ⇒ The following window appears:



Fig. 34: Restore_reboot

- Remove the CD from the CD-ROM drive.

NOTE

If the CD is not removed from the CD-ROM drive, there is a possibility that the system will no longer recognize the CD drive.

If this is the case, remove the CD, switch the system off, and then switch it on again.

- Click "OK".
 - ⇒ The imaging system reboots automatically.

Main system**NOTE**

A restore operation is only necessary when printed circuit board D1 in the main system was replaced or the parameters are to be overwritten.

It is not necessary to perform a restore operation or make any adjustments after an imaging system software installation or a main system software installation. The parameters are stored in EE Prom.

- Select "Backup & Restore" in the Service Software Home Menu.
- Insert the backup CD into the CD-ROM drive.
- Under "Command", select "Restore".
- Under "Drives", select the respective storage medium.
- Under "Archive", select the correct (newest) backup file of "MainSystem".
- Highlight all the files in "Groups".
 - e.g., by pressing the "Ctrl" key and clicking the individual groups.
- Click "Go".
 - ⇒ The restore is performed.
- Wait until "Ready" is displayed in the footer.
 - This can take several minutes.

Adapted the points for imaging software VB13B with restrictions.
New Backup/Restore chapter.

